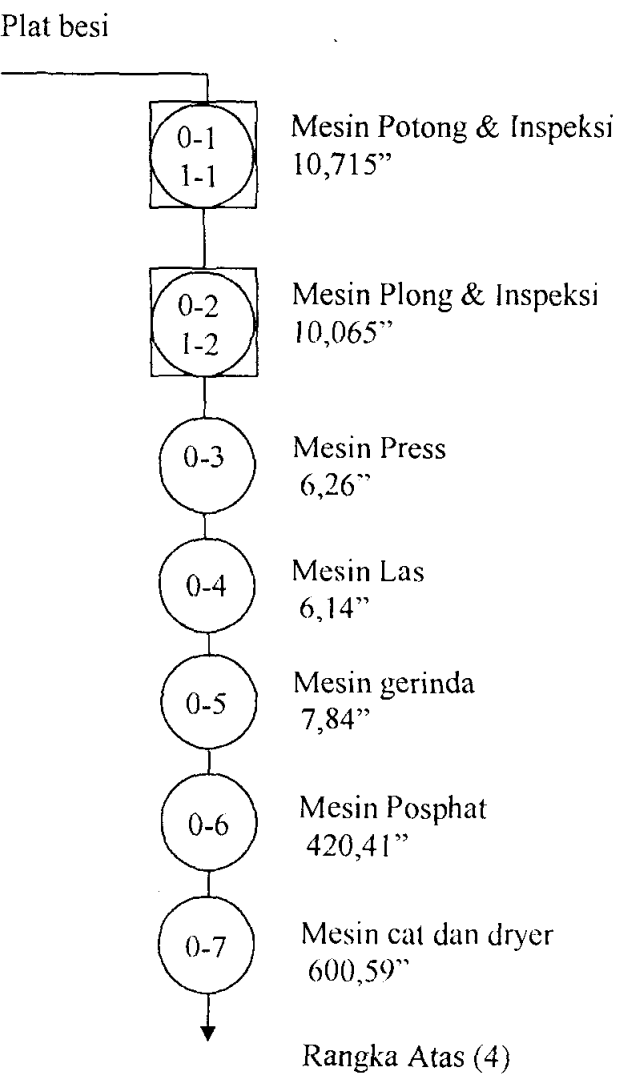


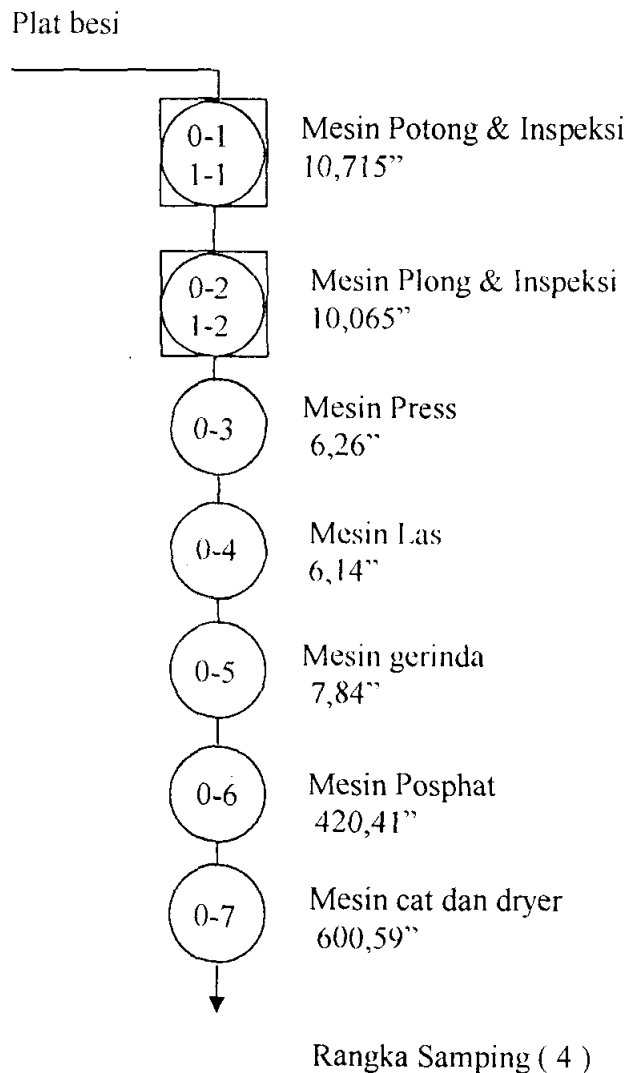
LAMPIRAN

OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 1		SHEET NO. 1 OF 10
SUBJECT CHARTED : Pembuatan Almari B-203		
ACTIVITY : Pembuatan Rangka Atas		
LOCATION : PT. TJAKRINDO MAS		
CAHARTED BY : CANDRA DEWI		DATE : 09-03-2005



Gambar 1
Operational Process Chart pembuatan rangka atas almari B-203

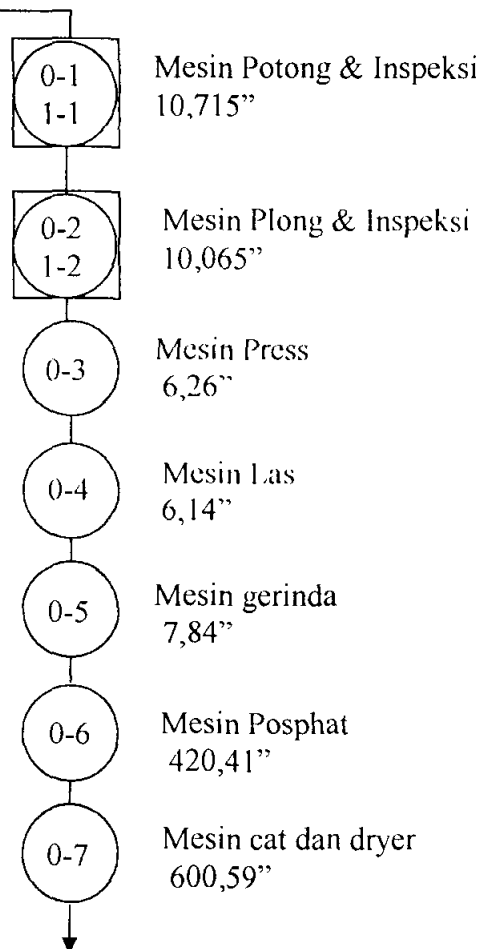
OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 1	SHEET NO. 2 OF 10	
SUBJECT CHARTED	: Pembuatan Almari B-203	
ACTIVITY	: Pembuatan Rangka Samping	
LOCATION	: PT. TAJKRINDO MAS	
CAHARTED BY	: CANDRA DEWI	DATE : 09-03-2005



Gambar 2
Operational Process Chart pembuatan rangka samping almari B-203

OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 1	SHEET NO. 3 OF 10	
SUBJECT CHARTED	: Pembuatan Almari B-203	
ACTIVITY	: Pembuatan Rangka Bawah	
LOCATION	: PT. TJAKRINDO MAS	
CAHARTED BY	: CANDRA DEWI	DATE :09-03-2005

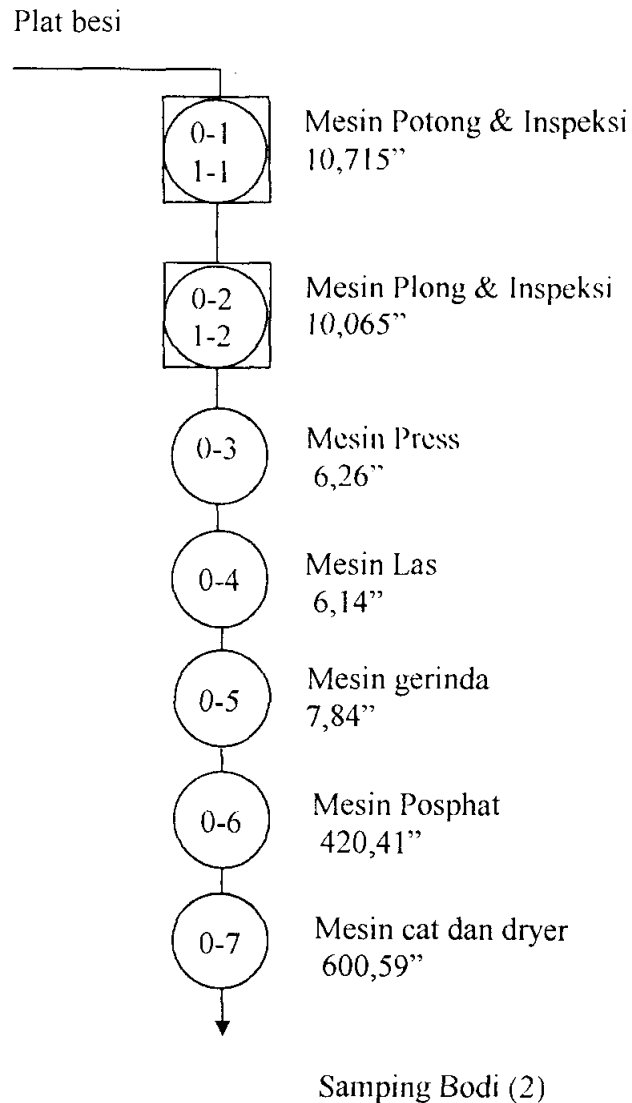
Plat besi



Rangka bawah (4)

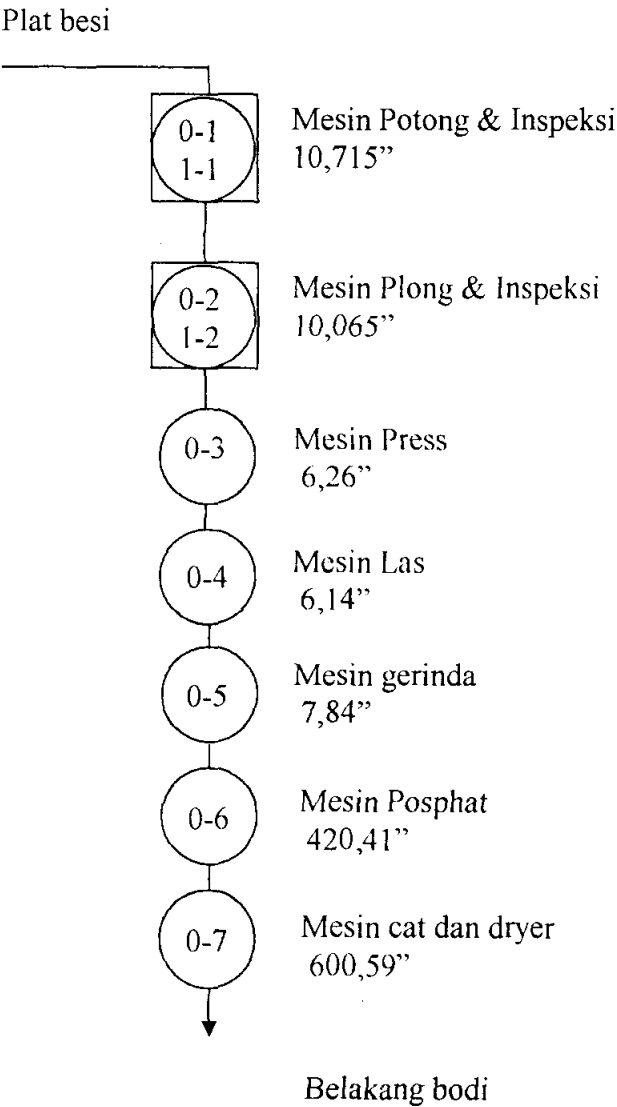
Gambar 3
Operational Process Chart pembuatan rangka bawah almari B-203

OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 1	SHEET NO. 4 OF 10	
SUBJECT CHARTED	: Pembuatan Almari B-203	
ACTIVITY	: Pembuatan Samping Bodi	
LOCATION	: PT. TJAKRINDO MAS	
CAHARTED BY	: CANDRA DEWI	DATE : 09-03-2005



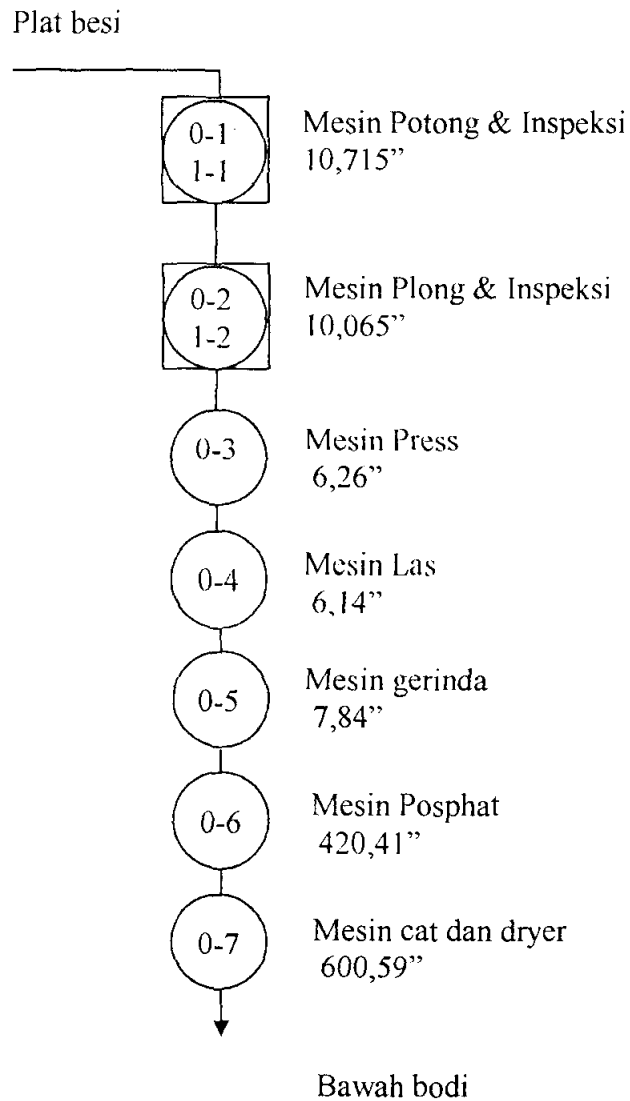
Gambar 4
Operational Process Chart pembuatan samping bodi almari B-203

OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 1	SHEET NO. 5 OF 10	
SUBJECT CHARTED	: Pembuatan Almari B-203	
ACTIVITY	: Pembuatan Belakang Bodi	
LOCATION	: PT. TJAKRINDO MAS	
CAHARTED BY	: CANDRA DEWI	DATE : 09-03-2005



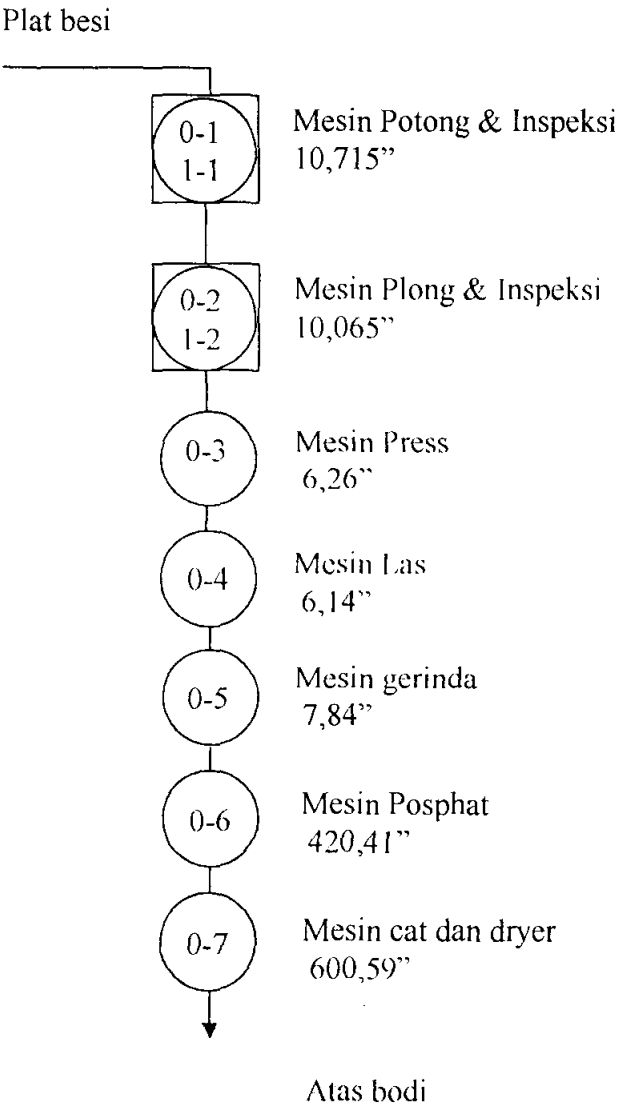
Gambar 5
Operational Process Chart pembuatan belakang bodi almari B-203

OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 1	SHEET NO. 6 OF 10	
SUBJECT CHARTED	: Pembuatan Almari B-203	
ACTIVITY	: Pembuatan Bawah Bodi	
LOCATION	: PT. TJAKRINDO MAS	
CAHARTED BY	: CANDRA DEWI	DATE : 09-03-2005



Gambar 6
Operational Process Chart pembuatan bawah bodi almari B-203

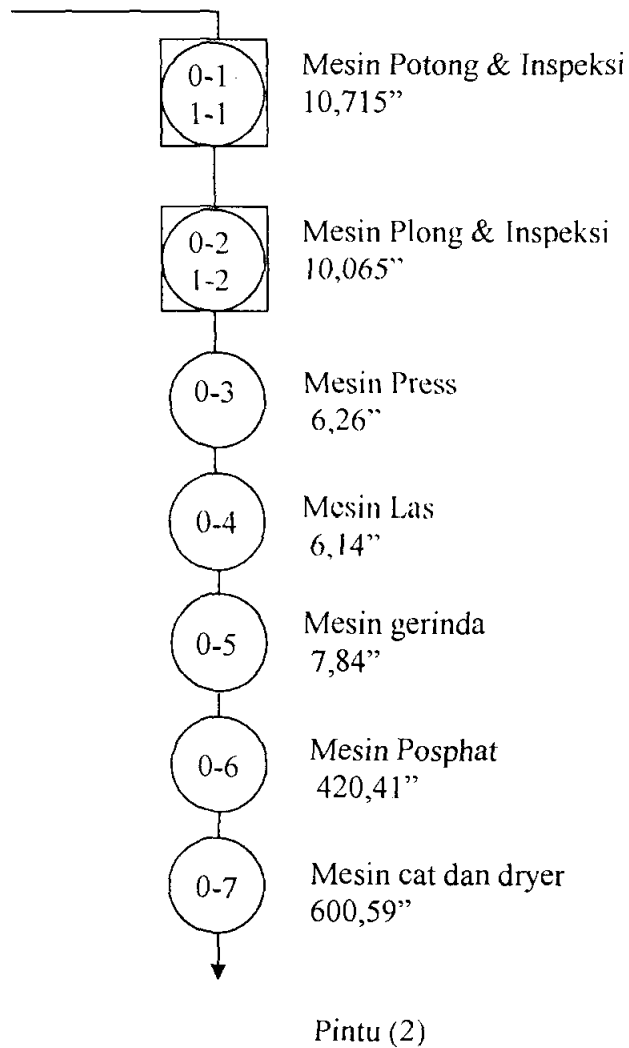
OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 1		SHEET NO. 7 OF 10
SUBJECT CHARTED		: Pembuatan Almari B-203
ACTIVITY		: Pembuatan Atas Bodi
LOCATION		: PT. TJAKRINDO MAS
CAHARTED BY		: CANDRA DEWI
		DATE : 09-03-2005



Gambar 7
Operational Process Chart pembuatan atas bodi almari B-203

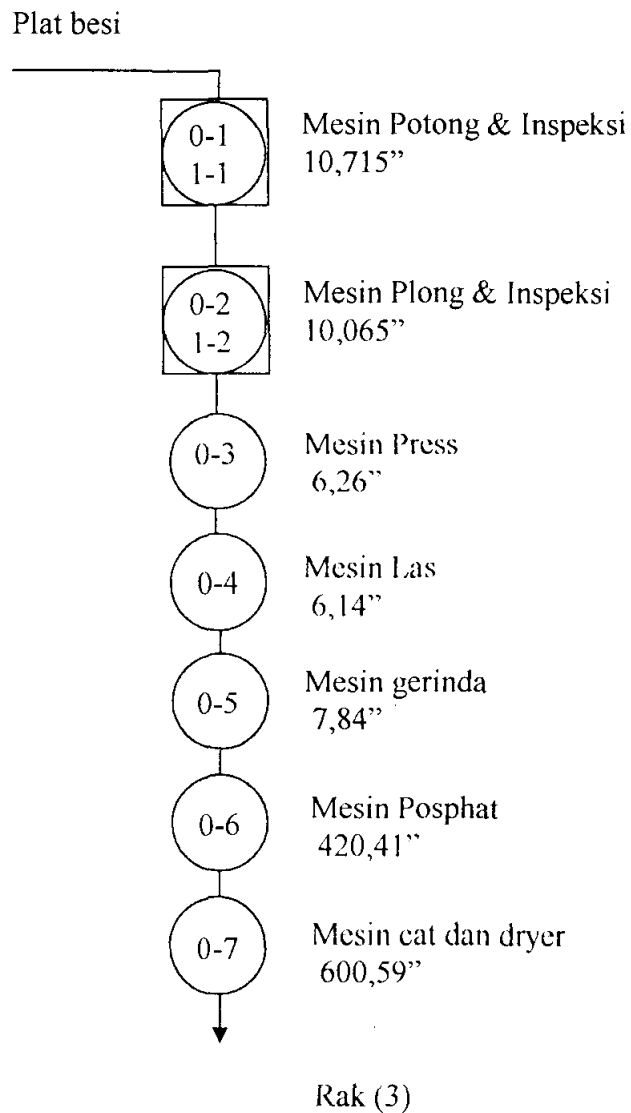
OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 1	SHEET NO. 8 OF 10	
SUBJECT CHARTED	: Pembuatan Almari B-203	
ACTIVITY	: Pembuatan Pintu	
LOCATION	: PT. TJAKRINDO MAS	
CAHARTED BY	: CANDRA DEWI	DATE : 09-03-2005

Plat besi



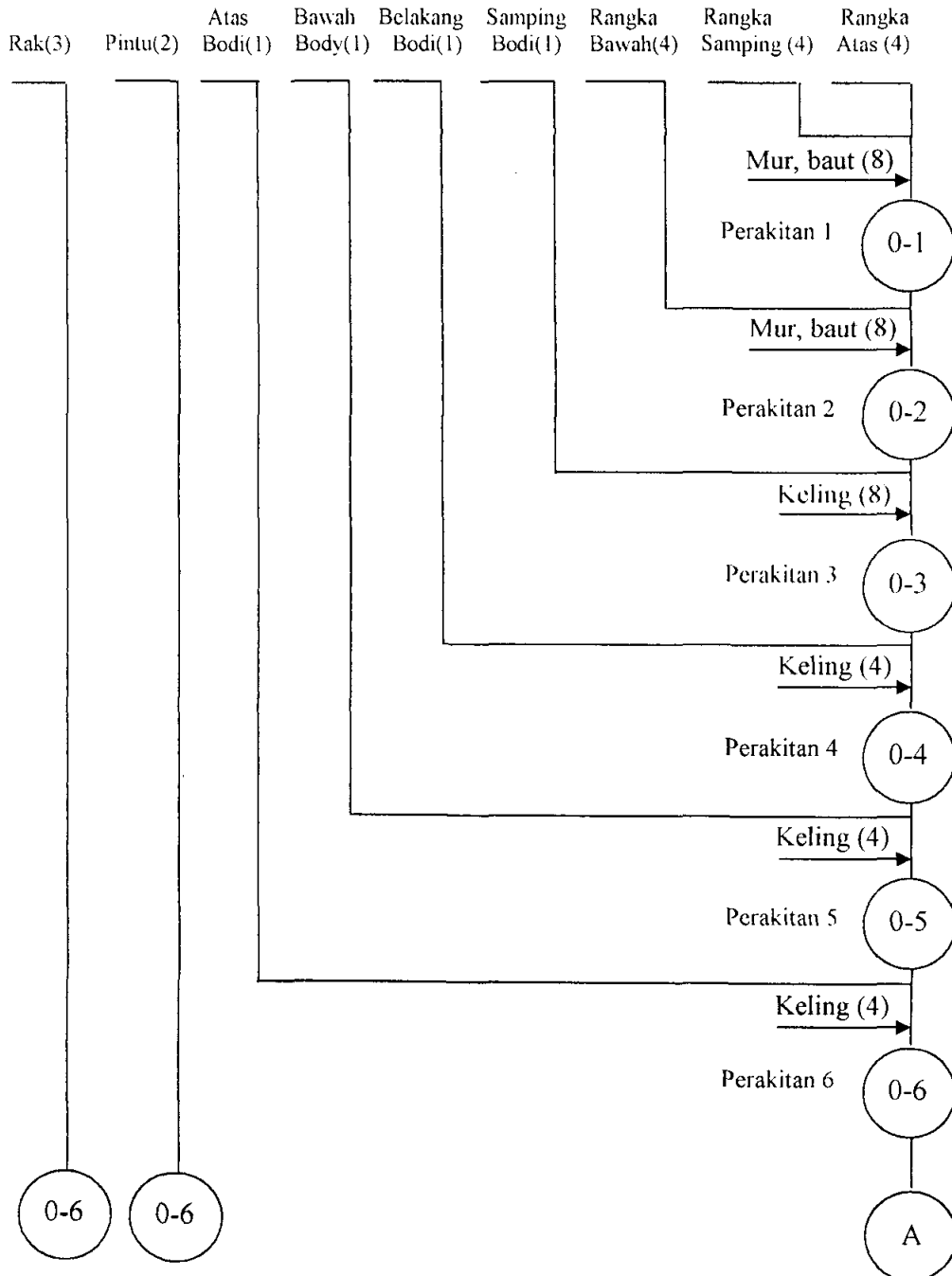
Gambar 8
Operational Process Chart pembuatan pintu almari B-203

OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 1		SHEET NO. 9 OF 10
SUBJECT CHARTED : Pembuatan Almari B-203		
ACTIVITY : Pembuatan Rak		
LOCATION : PT. TJAKRINDO MAS		
CAHARTED BY : CANDRA DEWI		DATE : 09-03-2005

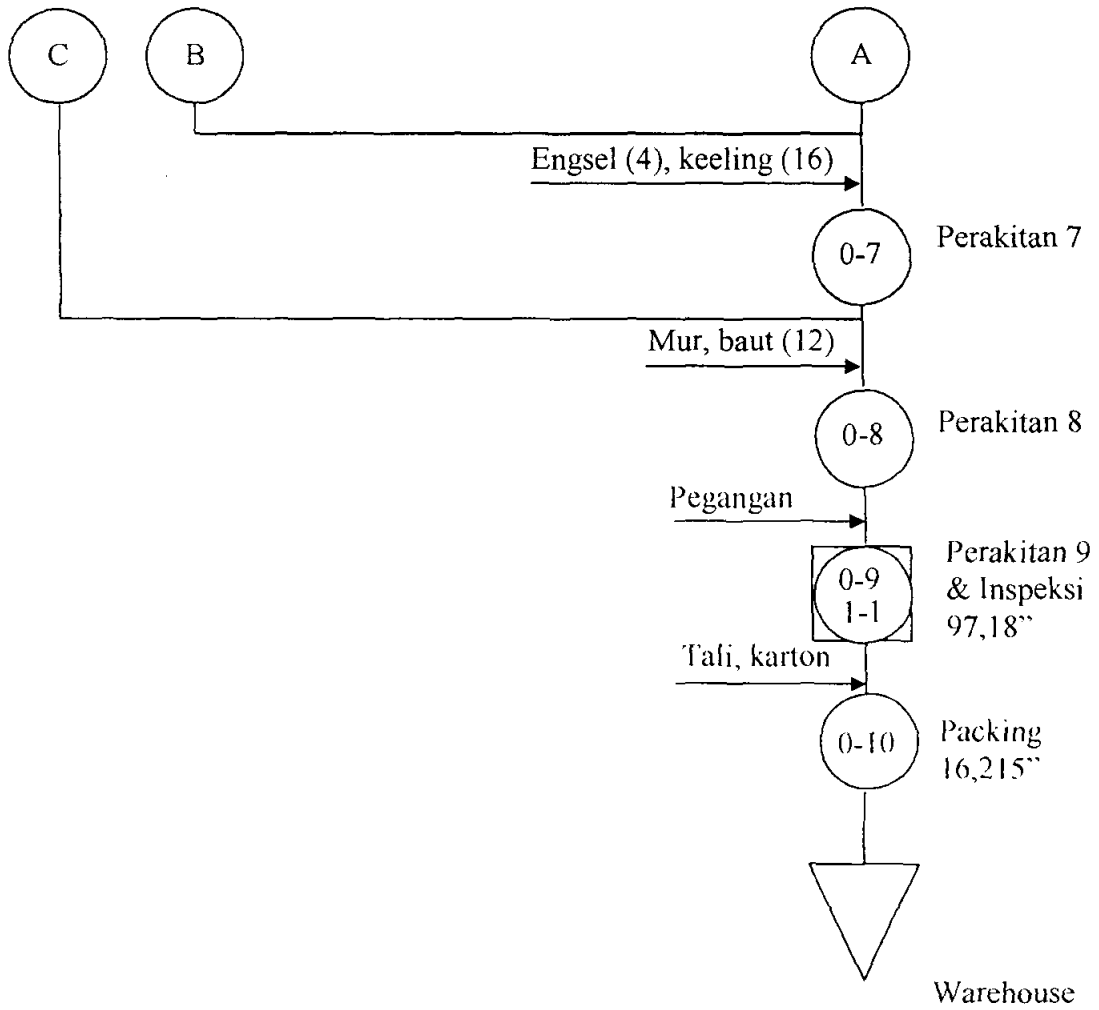


Gambar 9
Operational Process Chart pembuatan rak almari B-203

OPERATIONAL PROSES CHART			WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 1		SHEET NO. 10 OF 10	
SUBJECT CHARTED		: Pembuatan Almari B-203	
ACTIVITY		: Pembuatan Almari B-203	
LOCATION		: PT. TJAKRINDO MAS	
CAHARTED BY		: CANDRA DEWI	DATE : 09-03-2005

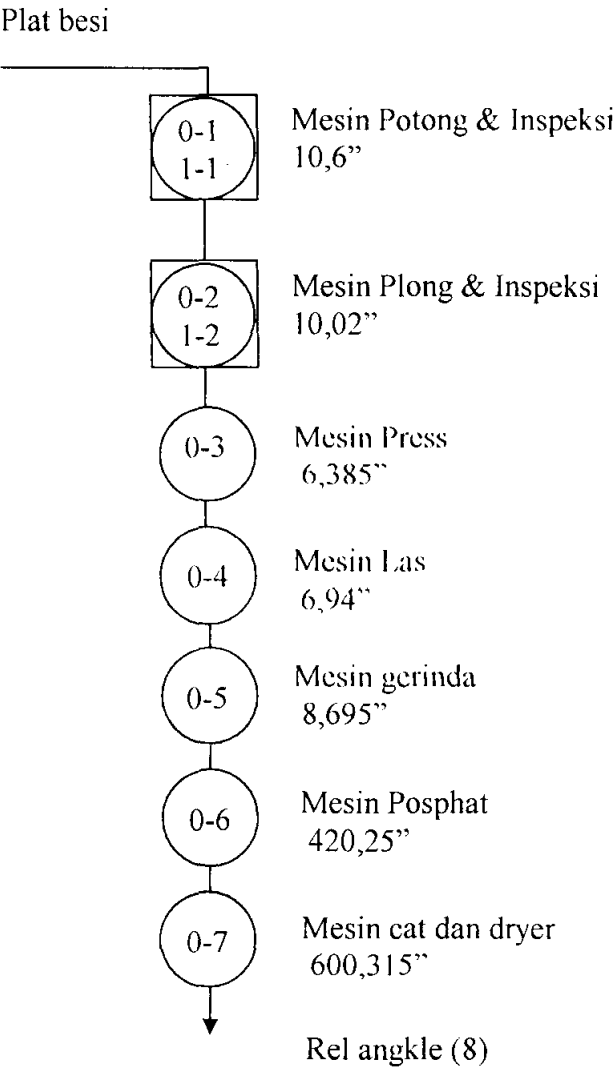


Gambar 10
Operational Process Chart pembuatan almari B-203



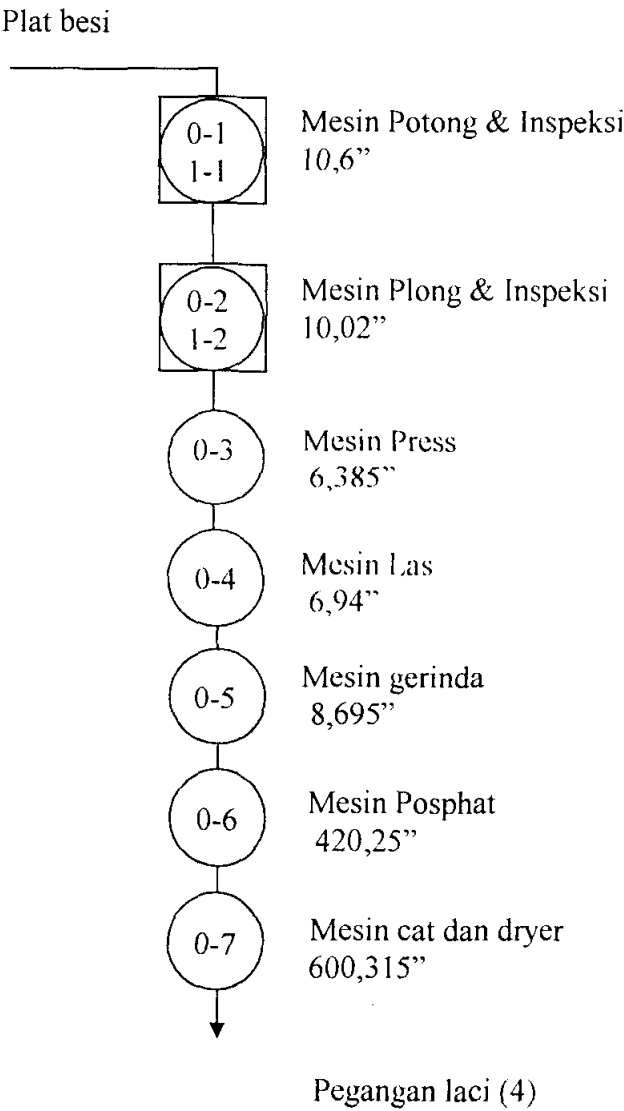
Gambar 11
Operational Process Chart Pembuatan Almari B-203

OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 2	SHEET NO. 1 OF 15	
SUBJECT CHARTED	: Pembuatan Kabinet C-104	
ACTIVITY	: Pembuatan Rel Angkle	
LOCATION	: PT. TJAKRINDO MAS	
CAHARTED BY	: CANDRA DEWI	DATE : 09-03-2005



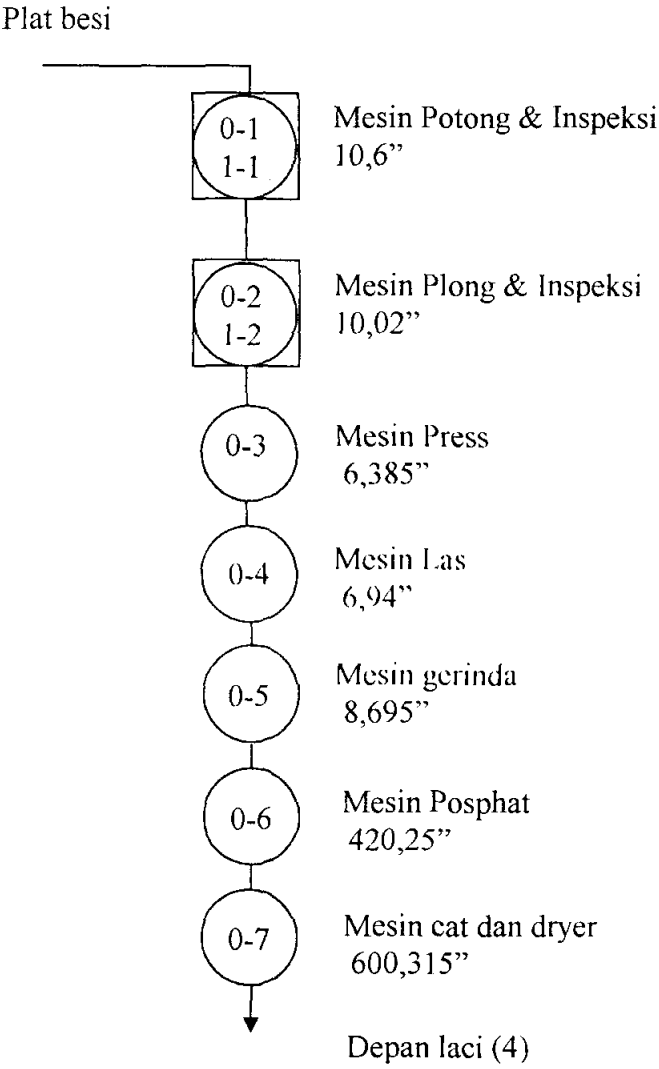
Gambar 1
Operational Process Chart pembuatan rel angkle kabinet C-104

OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 2	SHEET NO. 2 OF 15	
SUBJECT CHARTED	: Pembuatan Kabinet C-104	
ACTIVITY	: Pembuatan Pegangan Laci	
LOCATION	: PT. TJAKRINDO MAS	
CAHARTED BY	: CANDRA DEWI	DATE : 09-03-2005



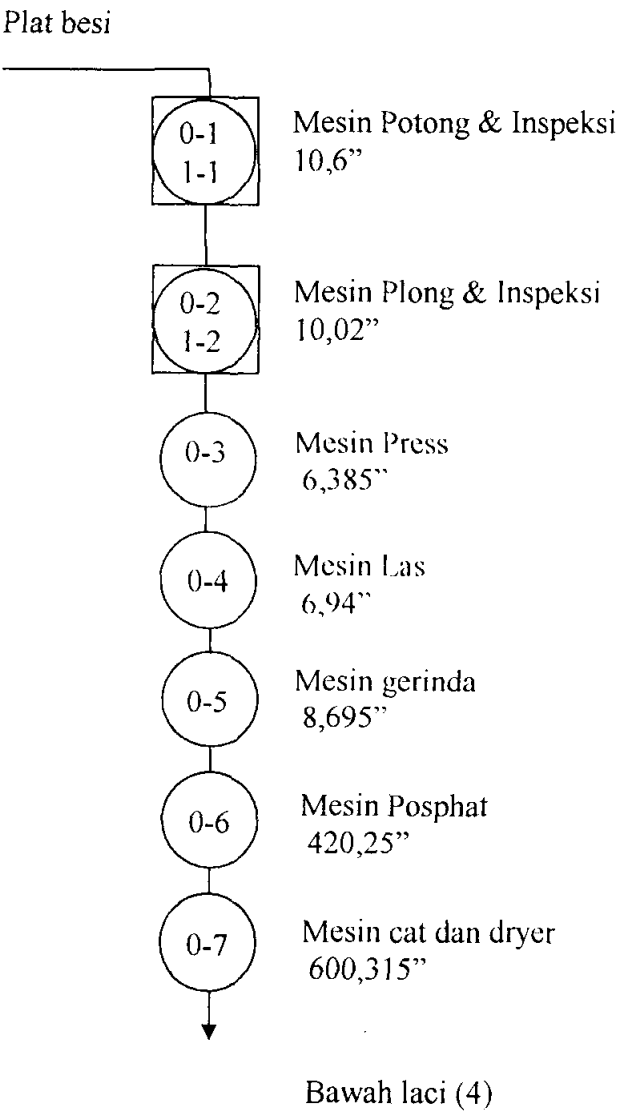
Gambar 2
Operational process Chart pembuatan pegangan laci kabinet C-104

OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 2		SHEET NO. 3 OF 15
SUBJECT CHARTED		: Pembuatan Kabinet C-104
ACTIVITY		: Pembuatan Depan Laci
LOCATION		: PT. TJAKRINDO MAS
CAHARTED BY		: CANDRA DEWI
		DATE : 09-03-2005



Gambar 3
Operational Process Chart pembuatan depan laci kabinet C-104

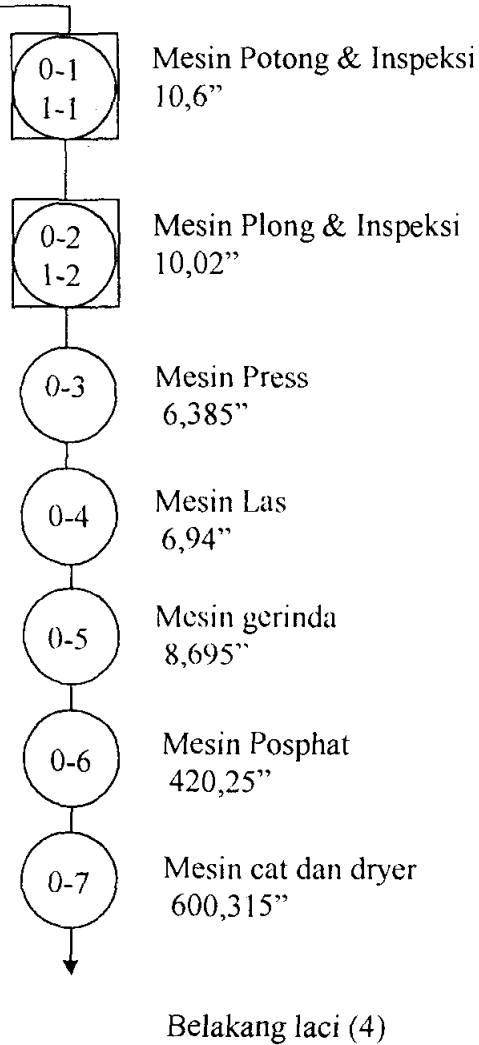
OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 2		SHEET NO. 4 OF 15
SUBJECT CHARTED		: Pembuatan Kabinet C-104
ACTIVITY		: Pembuatan Bawah Laci
LOCATION		: PT. TJAKRINDO MAS
CAHARTED BY		: CANDRA DEWI
		DATE : 09-03-2005



Gambar 4
Operational Process Chart pembuatan bawah laci kabinet C-104

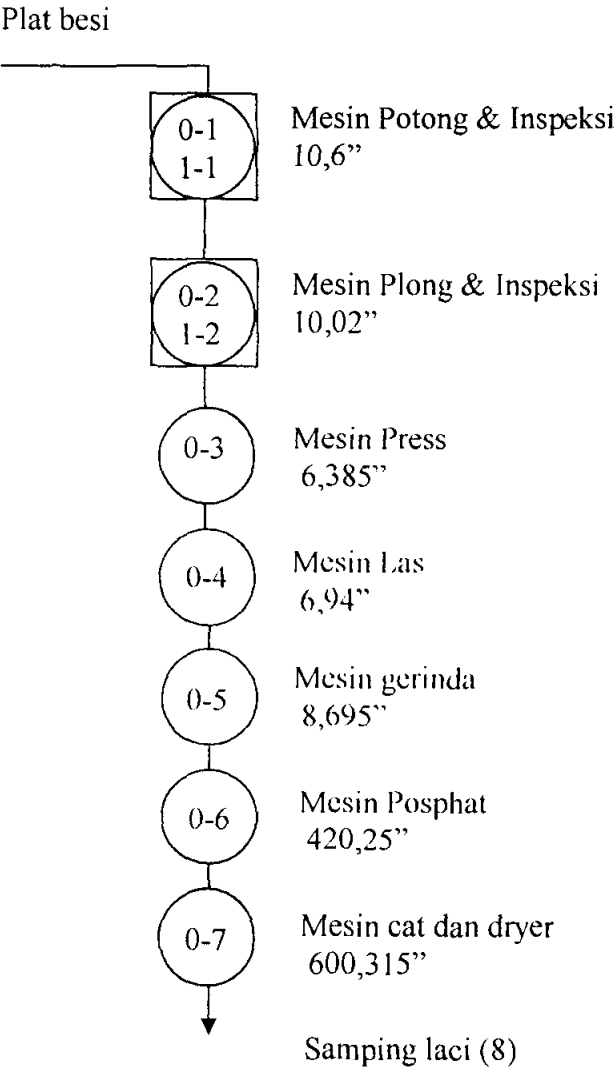
OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 2		SHEET NO. 5 OF 15
SUBJECT CHARTED		: Pembuatan Kabinet C-104
LOCATION		: Pembuatan Belakang Laci
LOCATION		: PT. TJAKRINDO MAS
CHARTED BY		: CANDRA DEWI
		DATE : 09-03-2005

Plat besi



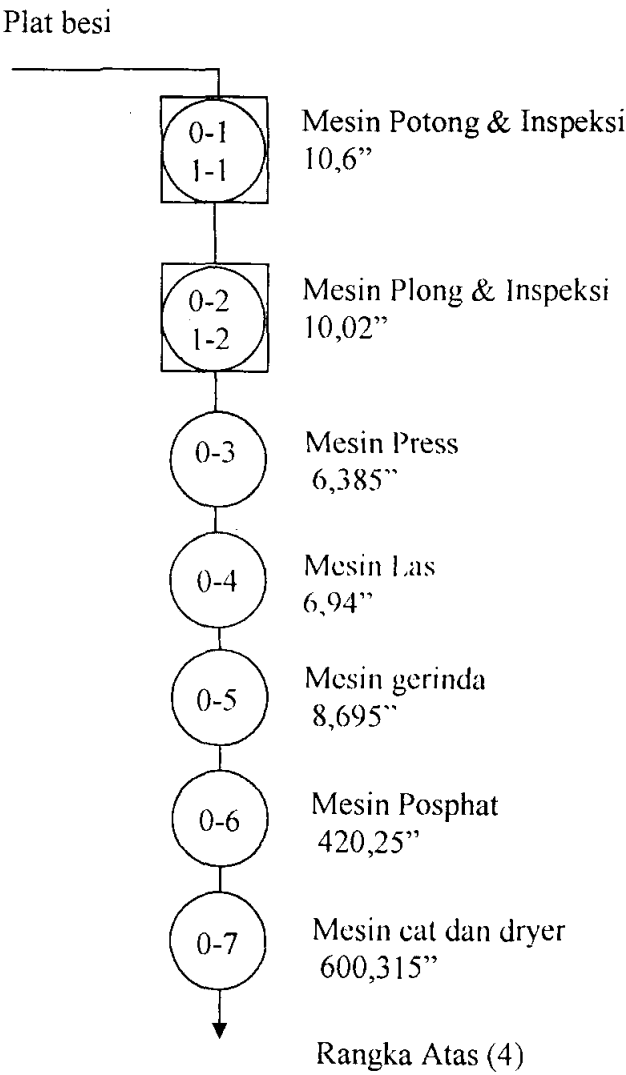
Gambar 5
Operational Process Chart pembuatan belakang laci kabinet C-104

OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 2	SHEET NO. 6 OF 15	
SUBJECT CHARTED	: Pembuatan Kabinet C-104	
ACTIVITY	: Pembuatan Samping Laci	
LOCATION	: PT. TJAKRINDO MAS	
CAHARTED BY	: CANDRA DEWI	DATE : 09-03-2005



Gambar 6
Operational Process Chart pembuatan samping laci kabinet C-104

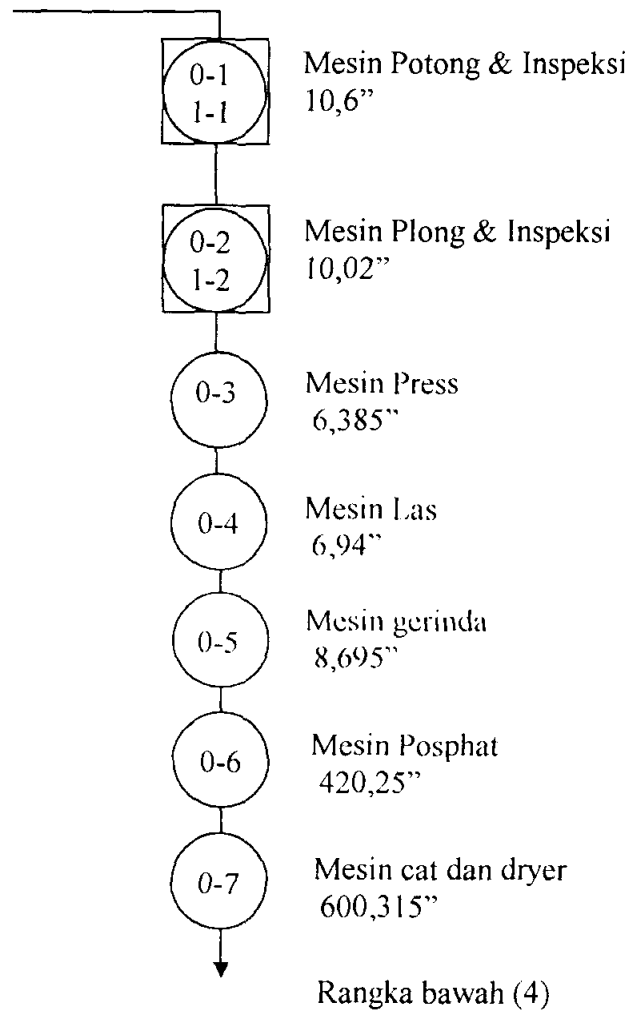
OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 2	SHEET NO. 7 OF 15	
SUBJECT CHARTED	: Pembuatan Kabinet C-104	
ACTIVITY	: Pembuatan Rangka Atas	
LOCATION	: PT. TJAKRINDO MAS	
CAHARTED BY	: CANDRA DEWI	DATE : 09-03-2005



Gambar 7
Operational Process Chart pembuatan rangka atas kabinet C-104

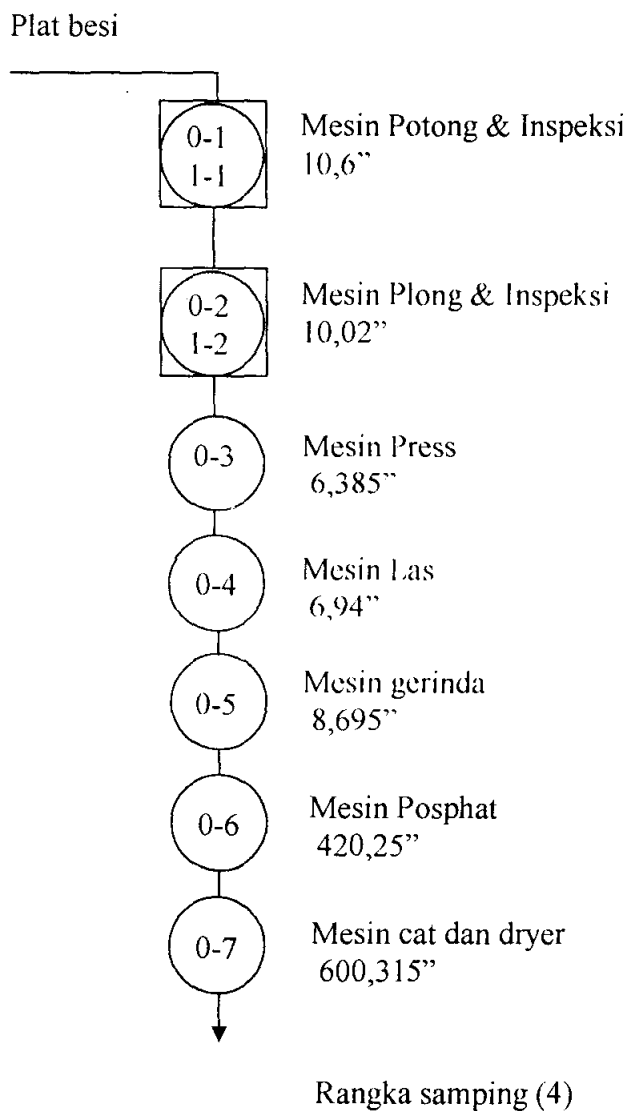
OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 2	SHEET NO. 7 OF 15	
SUBJECT CHARTED	: Pembuatan Kabinet C-104	
ACTIVITY	: Pembuatan Rangka Bawah	
LOCATION	: PT. TJAKRINDO MAS	
CAHARTED BY	: CANDRA DEWI	DATE : 09-03-2005

Plat besi



Gambar 8
Operational Process Chart pembuatan rangka bawah kabinet C-104

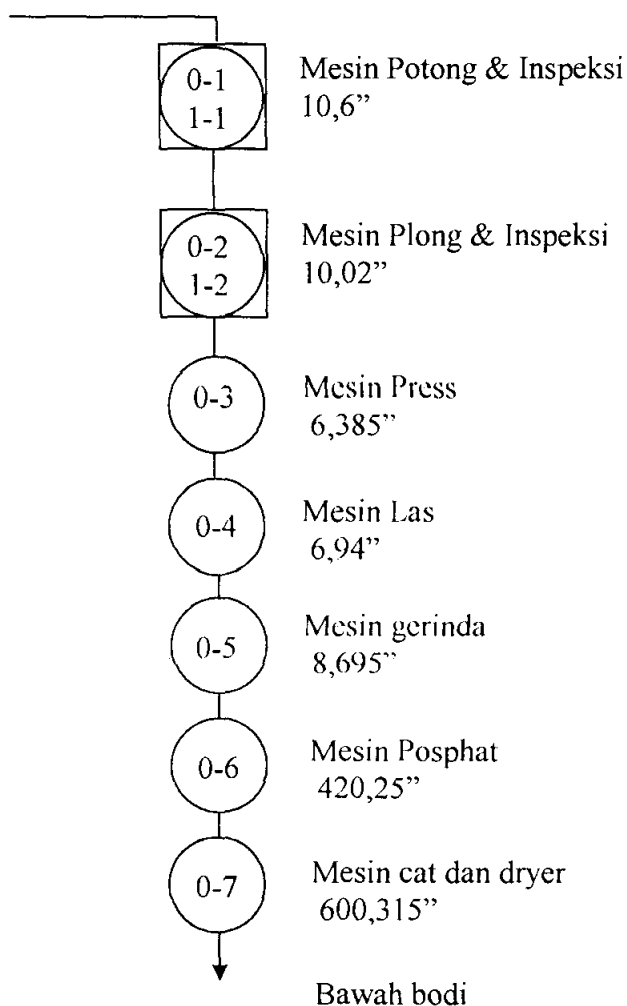
OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 2	SHEET NO. 9 OF 15	
SUBJECT CHARTED	: Pembuatan Kabinet C-104	
ACTIVITY	: Pembuatan Rangka Samping	
LOCATION	: PT. TJAKRINDO MAS	
CAHARTED BY	: CANDRA DEWI	DATE : 09-03-2005



Gambar 9
Operational Process Chart pembuatan rangka samping kabinet C-104

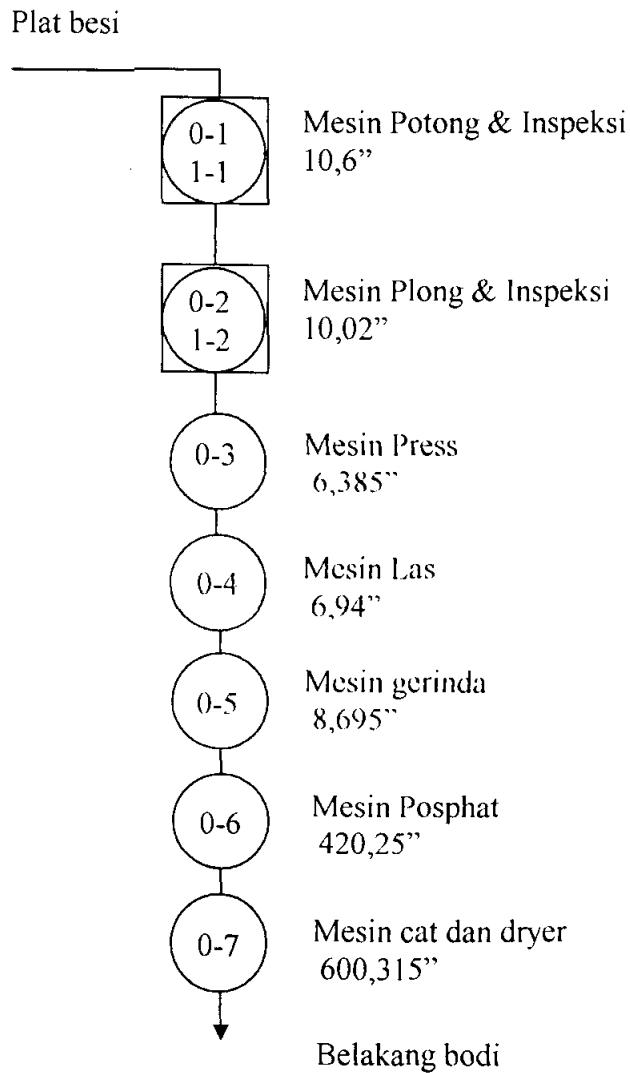
OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 2		SHEET NO. 10 OF 15
SUBJECT CHARTED : Pembuatan Kabinet C-104		
ACTIVITY : Pembuatan Bawah Bodi		
LOCATION : PT. TJAKRINDO MAS		
CAHARTED BY : CANDRA DEWI		DATE : 09-03-2005

Plat besi



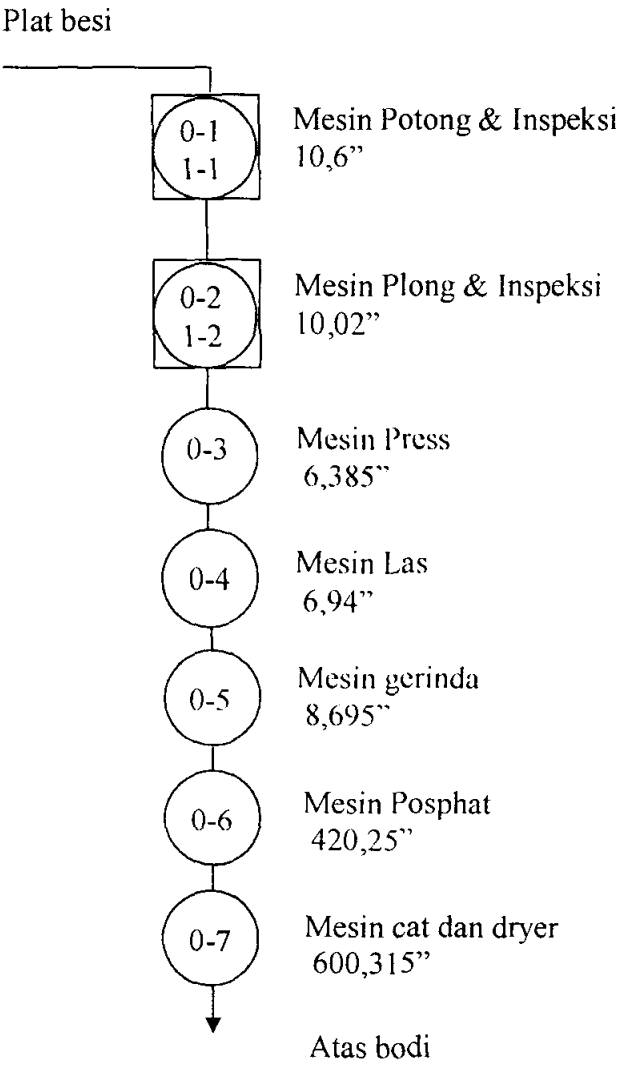
Gambar 10
Operational Process Chart pembuatan bawah bodi kabinet C-104

OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 2	SHEET NO. 11 OF 15	
SUBJECT CHARTED	: Pembuatan Kabinet C-104	
ACTIVITY	: Pembuatan Belakang Bodi	
LOCATION	: PT. TJAKRINDO MAS	
CAHARTED BY	: CANDRA DEWI	DATE : 09-03-2005



Gambar 11
Operational Process Chart pembuatan belakang bodi kabinet C-104

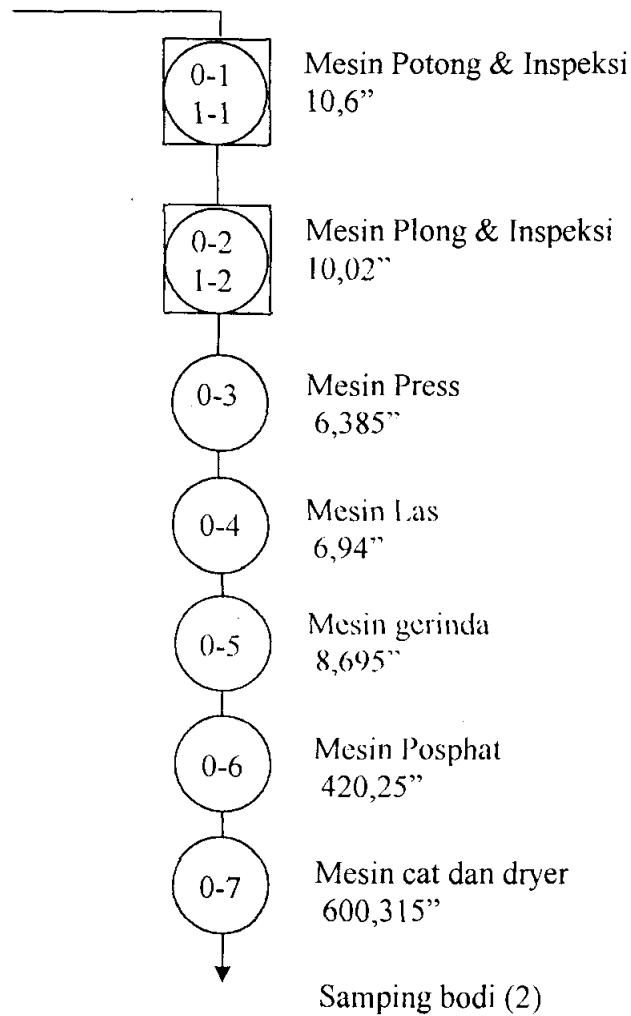
OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 2		SHEET NO. 12 OF 15
SUBJECT CHARTED		: Pembuatan Kabinet C-104
ACTIVITY		: Pembuatan Atas Bodi
LOCATION		: PT. TJAKRINDO MAS
CAHARTED BY		: CANDRA DEWI
		DATE : 09-03-2005



Gambar 12
Operational Process Chart pembuatan atas bodi kabinet C-104

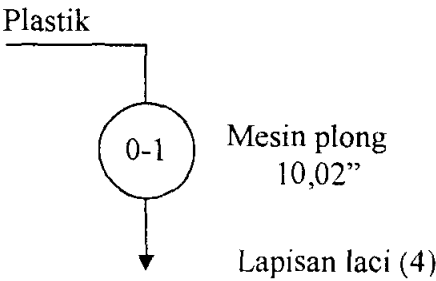
OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 2	SHEET NO. 13 OF 15	
SUBJECT CHARTED	: Pembuatan Kabinet C-104	
ACTIVITY	: Pembuatan Samping Bodi	
LOCATION	: PT. TIAKRINDO MAS	
CAHARTED BY	: CANDRA DEWI	DATE : 09-03-2005

Plat besi



Gambar 13
Operational Process Chart pembuatan samping bodi kabinet C-104

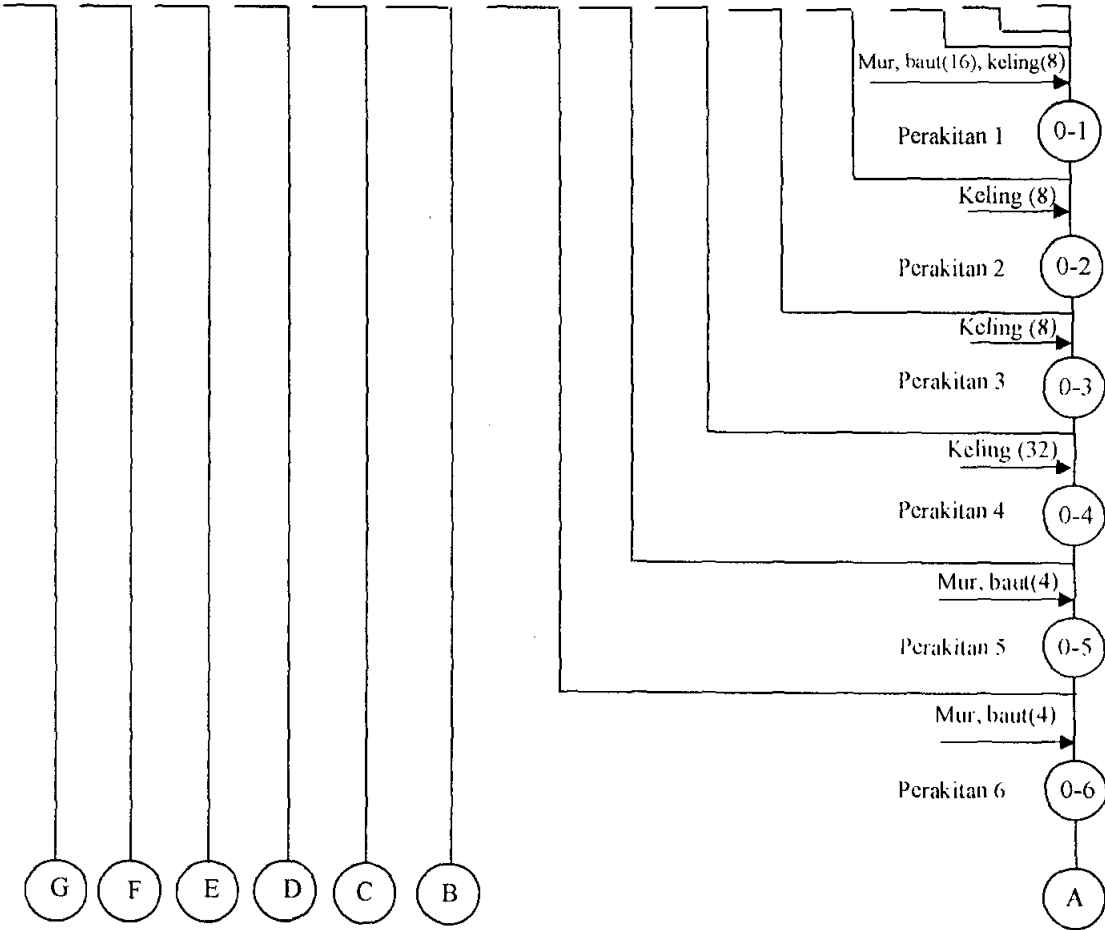
OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 2		SHEET NO. 14 OF 15
SUBJECT CHARTED : Pembuatan Kabinet C-104		
ACTIVITY : Pembuatan Lapisan Laci		
LOCATION : PT. TJAKRINDO MAS		
CAHARTED BY : CANDRA DEWI		DATE : 09-03-2005



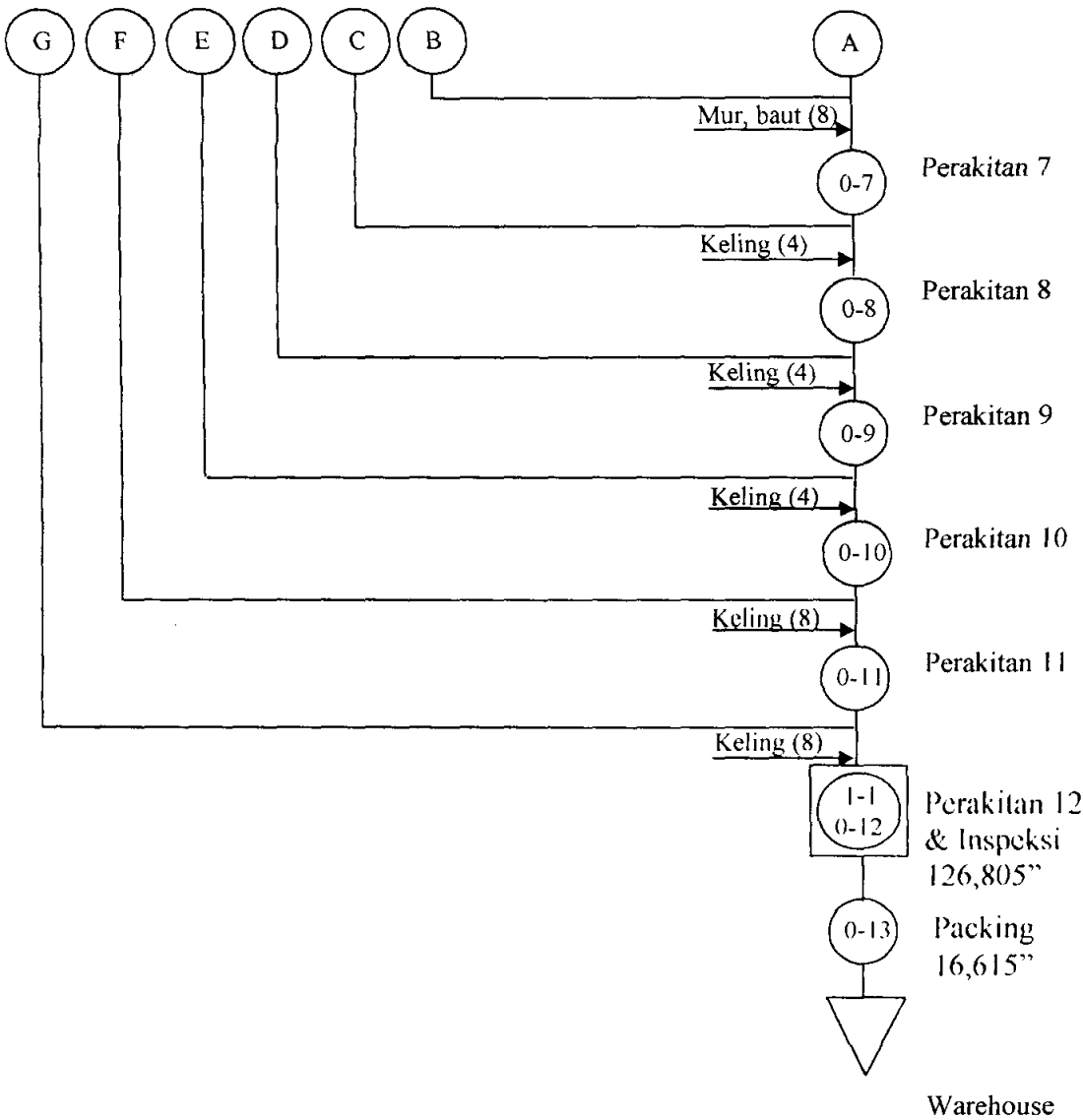
Gambar 14
Operational Process Chart pembuatan lapisan laci kabinet C-104

OPERATIONAL PROSES CHART		WORKER/MATERIAL/EQUIPMENT TYPE
CHART NO. 2		SHEET NO. 15 OF 15
SUBJECT CHARTED		: Pembuatan Kabinet C-104
ACTIVITY		: Pembuatan Kabinet C-104
LOCATION		: PT. TJAKRINDO MAS
CAHARTED BY		: CANDRA DEWI
		DATE : 09-03-2005

Lapisan Samping Atas Belakang Bawah Rangka Rangka Rangka Samping Belakang Bawah Depan Pegangan Rel
Laci(4) Bodi(1) Bodi(1) Bodi(1) Bodi(1) Samping(4) Bawah(4) Atas(4) Laci(8) Laci(4) Laci(4) Laci(4) Laci(4) Angkle

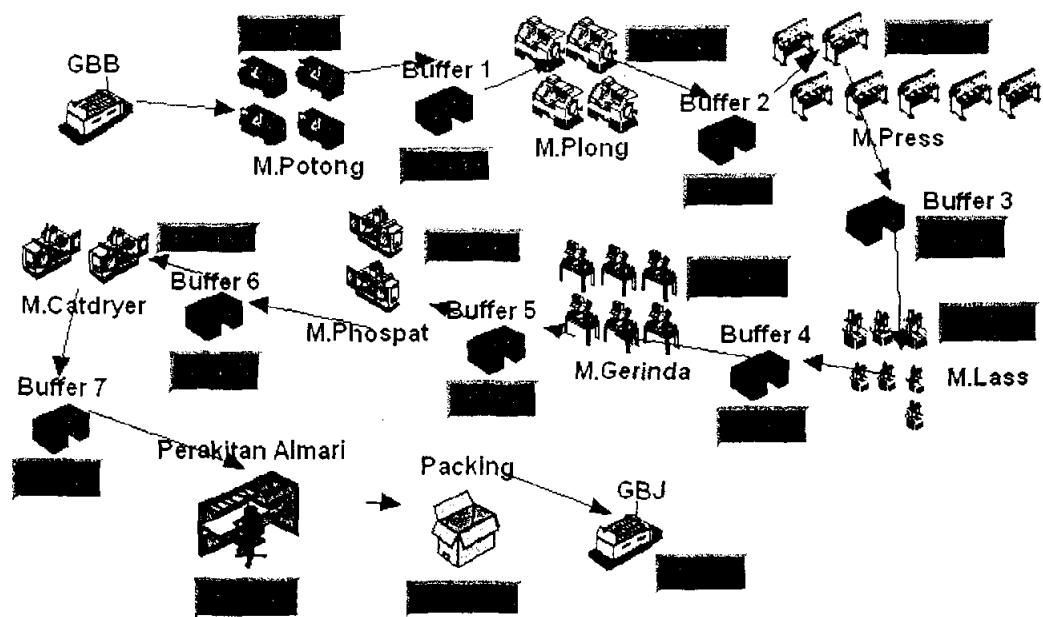


Gambar 15
Operational Process Chart pembuatan kabinet C-104

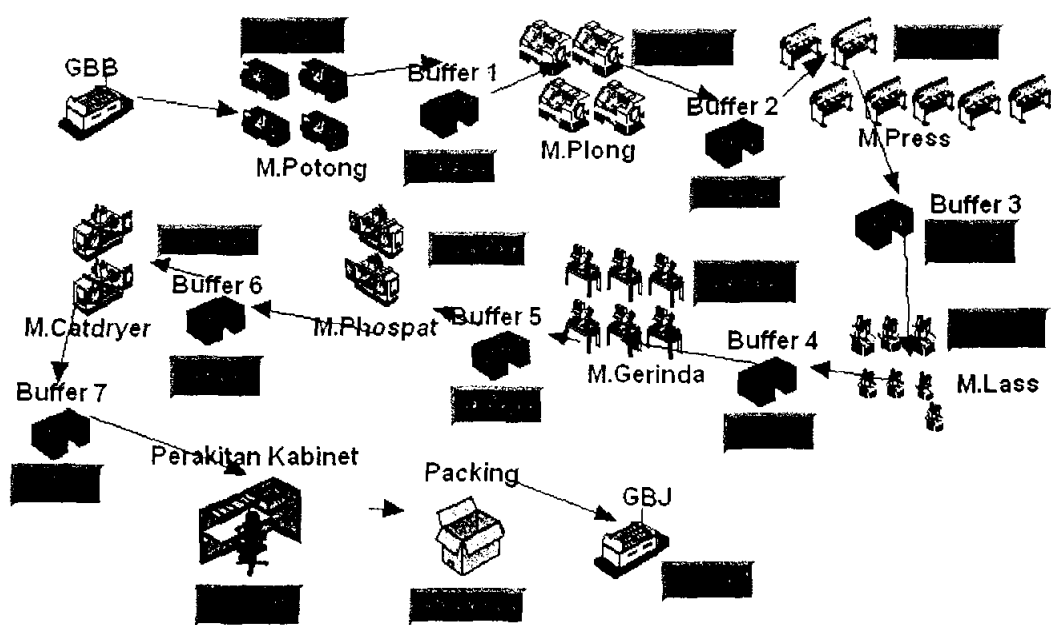


Gambar 16
Operational Process Chart Pembuatan kabinet C-104

Layout Produk Almari



Layout Produk Kabinet



General Report

Output from C:\DOCUME~1\CHRIST~1\My Documents\Friends' Data\ling TA\Coba-coba A.MOD [promod]
 Date: May/19/2005 Time: 01:21:48 PM

 Scenario : Normal Run
 Replication : All
 Period : Final Report (0 sec to 7 hr Elapsed: 7 hr)
 Simulation Time : 7 hr

VARIABLES

Variable Name	Total Changes	Average Seconds Per Change	Minimum Value	Maximum Value	Current Value	Average Value	
Jadi	246	102.051707	0	246	246	117.191	(Rep 1)
Jadi	246	102.118293	0	246	246	117.004	(Rep 2)
Jadi	246	102.103902	0	246	246	117.112	(Rep 3)
Jadi	246	102.072439	0	246	246	117.035	(Rep 4)
Jadi	246	102.113902	0	246	246	117.129	(Rep 5)
Jadi	247	101.991741	0	247	247	117.149	(Rep 6)
Jadi	246	102.090488	0	246	246	117.06	(Rep 7)
Jadi	246	102.137317	0	246	246	117.007	(Rep 8)
Jadi	246	102.148293	0	246	246	116.995	(Rep 9)
Jadi	246	102.118537	0	246	246	117.012	(Rep 10)
Jadi	246	102.082195	0	246	246	117.111	(Rep 11)
Jadi	247	101.989069	0	247	247	117.221	(Rep 12)
Jadi	246	102.057317	0	246	246	117.136	(Rep 13)
Jadi	246	102.072927	0	246	246	117.105	(Rep 14)
Jadi	246	102.086098	0	246	246	117.09	(Rep 15)
Jadi	246	102.041463	0	246	246	117.079	(Rep 16)
Jadi	247	102.011174	0	247	247	117.167	(Rep 17)
Jadi	246	102.072439	0	246	246	117.165	(Rep 18)
Jadi	246	102.143902	0	246	246	117.041	(Rep 19)
Jadi	246	102.045854	0	246	246	117.153	(Rep 20)
Jadi	246	102.166585	0	246	246	117.006	(Rep 21)
Jadi	247	102.007773	0	247	247	117.117	(Rep 22)
Jadi	246	102.101463	0	246	246	117.092	(Rep 23)
Jadi	246	102.173415	0	246	246	117.038	(Rep 24)
Jadi	246	102.092439	0	246	246	117.066	(Rep 25)
Jadi	247	102.014818	0	247	247	117.215	(Rep 26)
Jadi	247	102.004615	0	247	247	117.144	(Rep 27)
Jadi	246	102.054634	0	246	246	117.121	(Rep 28)
Jadi	246	102.102683	0	246	246	117.06	(Rep 29)
Jadi	246	102.086829	0	246	246	117.07	(Rep 30)
Jadi	246.2	102.078477	0	246.2	246.2	117.096	(Average)
Jadi	0.406838	0.050822	0	0.406838	0.406838	0.0637603	(Std. Dev.)

General Report

Output from C:\DOCUME~1\CHRIST~1\My Documents\Friends' Data\ling TA\Coba-coba K.MOD [promod]
 Date: May/19/2005 Time: 01:32:26 PM

 Scenario : Normal Run
 Replication : All
 Period : Final Report (0 sec to 7 hr Elapsed: 7 hr)
 Simulation Time : 7 hr

VARIABLES

Variable Name	Total Changes	Average Seconds Per Change	Minimum Value	Maximum Value	Current Value	Average Value	
Jadi	188	133.401383	0	188	188	89.5005	(Rep 1)
Jadi	189	133.332063	0	189	189	89.5152	(Rep 2)
Jadi	188	133.383830	0	188	188	89.4553	(Rep 3)
Jadi	188	133.417660	0	188	188	89.4739	(Rep 4)
Jadi	188	133.448617	0	188	188	89.4201	(Rep 5)
Jadi	188	133.381596	0	188	188	89.5737	(Rep 6)
Jadi	188	133.408723	0	188	188	89.5069	(Rep 7)
Jadi	188	133.461064	0	188	188	89.4161	(Rep 8)
Jadi	188	133.408404	0	188	188	89.5118	(Rep 9)
Jadi	188	133.426277	0	188	188	89.4689	(Rep 10)
Jadi	188	133.496170	0	188	188	89.4586	(Rep 11)
Jadi	188	133.559681	0	188	188	89.4117	(Rep 12)
Jadi	189	133.292063	0	189	189	89.5174	(Rep 13)
Jadi	189	133.217778	0	189	189	89.659	(Rep 14)
Jadi	189	133.261270	0	189	189	89.5056	(Rep 15)
Jadi	188	133.518511	0	188	188	89.4592	(Rep 16)
Jadi	188	133.368830	0	188	188	89.4989	(Rep 17)
Jadi	188	133.456596	0	188	188	89.4048	(Rep 18)
Jadi	188	133.446064	0	188	188	89.5072	(Rep 19)
Jadi	189	133.191429	0	189	189	89.6471	(Rep 20)
Jadi	189	133.293968	0	189	189	89.543	(Rep 21)
Jadi	189	133.322857	0	189	189	89.5864	(Rep 22)
Jadi	189	133.319683	0	189	189	89.5436	(Rep 23)
Jadi	188	133.468085	0	188	188	89.4112	(Rep 24)
Jadi	189	133.284127	0	189	189	89.6226	(Rep 25)
Jadi	188	133.412872	0	188	188	89.4994	(Rep 26)
Jadi	189	133.257778	0	189	189	89.5949	(Rep 27)
Jadi	188	133.392128	0	188	188	89.5049	(Rep 28)
Jadi	189	133.223810	0	189	189	89.6274	(Rep 29)
Jadi	188	133.412553	0	188	188	89.5624	(Rep 30)
Jadi	188.367	133.375529	0	188.367	188.367	89.5164	(Average)
Jadi	0.490133	0.092949	0	0.490133	0.490133	0.0724	(Std. Dev.)

Waktu Proses (detik) Almari									
No	M.Pot.A	M.Plong A	M.Pres A	M.Las A	M.Ger A	M.Phospat A	M.Catdryer A	Perakitan Almari	Packing
1	9.6	9.3	6	6.6	7.7	419.7	599.3	97.3	16.8
2	9.1	10.2	5.8	7.2	8.5	419.7	600.5	96.5	14.2
3	12	8.7	6.4	6.5	7.6	421.1	602.6	97.8	15.8
4	11.7	11.6	5.9	6.1	8.2	422.8	597.8	97.6	16
5	10.2	10.8	6.8	6	8.3	420.3	600.1	98.3	16.3
6	10.7	9.8	6.2	5.3	7.8	421.2	598.9	97.7	17.2
7	9.8	9.3	6.6	6.3	7.5	419.8	600.3	96.8	14.8
8	10.4	8.6	5.4	5.9	7.1	419.5	599.2	98.1	15.8
9	11	10.9	5.7	5.3	8.3	419	601.2	96.5	14.6
10	11.3	9.4	6.3	6.5	8.6	422.2	604.3	96.2	13.8
11	10.2	10.2	5.5	6.2	8.1	421	601.5	98.4	15.4
12	11.2	9.6	6.5	5	7.9	421	602.1	97.3	18.3
13	10	11.2	5.3	5.3	7.4	419.1	601.7	96.3	18.9
14	12	10.5	7.3	5.7	8.4	421.4	600.7	97.8	16.4
15	11	9.2	6.3	7.2	8	421.5	599.9	96.3	17.3
16	10.8	11.5	6.4	6.5	7.6	420.9	604.9	96.5	14.8
17	11.5	11.3	7.7	5.9	7	420.1	598.7	97.3	16.2
18	11.4	10	7.3	7.3	7.8	420.3	597.6	96.8	17
19	10.6	9.7	5.6	6.2	7.1	418.2	599	97.3	17.5
20	9.8	9.5	6.2	5.8	7.9	419.4	601.5	96.8	17.2
$\sum x$	214.3	201.3	125.2	122.8	156.8	8408.2	12011.8	1943.6	324.3
Average	10.715	10.065	6.26	6.14	7.84	420.41	600.59	97.18	16.215
St dev	0.820317653	0.912068211	0.654860371	0.652444795	0.47172695	1.14840851	1.94690037	0.695549764	1.355019907
UCL	13.17595296	12.80120463	8.224581112	8.097334385	9.255180851	423.8552255	606.4307011	99.26664929	20.28005972
LCL	8.25404704	7.328795368	4.295418888	4.182665615	6.424819149	416.9647745	594.7492989	95.09335071	12.14994028
k/s	40	40	40	40	40	40	40	40	40
n	20	20	20	20	20	20	20	20	20
$\sum x^2$	2309.01	2041.89	791.9	762.08	1233.54	3534916.42	7214238.98	188888.24	5293.41
$(\sum x)^2$	45924.49	40521.69	15675.04	15079.84	24586.24	70697827.24	144283339.2	3777580.96	105170.49
	639.6373973	711.1793023	510.6231487	508.7396191	367.8260458	895.4641255	1518.083002	542.3504402	1056.568029
N'	2.984775536	3.532932451	4.078459654	4.142830774	2.345829374	0.106498909	0.126382641	0.279044268	3.257995773

No	Waktu Proses (detik) Kabinet								Packing
	M.Pot.K	M.Plong K	M. Pres K	M.Las K	M.Ger.K	M.Phospat K	M.Catdryer K	Perakitan Kabinet	
1	10	9.8	6	6.8	8.3	419.5	599.4	126.2	15.3
2	12.2	10.3	6.5	6.7	9	420.2	597.3	125.8	16.3
3	11.6	9.5	5.1	7.1	8.4	420.4	600.1	126.8	17.2
4	12	10.1	6	7.3	9.1	421.2	603.4	125.5	18.5
5	10.2	9.5	6.2	6.9	8.6	419.5	598.1	126.4	16.9
6	9	9.6	7.1	6.8	8.7	419.7	600.5	128.5	15
7	11.1	10.3	7.6	7.3	9.3	419.5	602.5	127.5	16.5
8	8.9	9.7	6	7.9	8.5	421.9	600.5	128.3	15.8
9	9.5	10.7	7.2	6.5	7.8	421.4	599.6	125.7	16
10	12	10	6.5	6.8	9.6	422.5	597.3	127.4	15.8
11	9.5	9.8	7	7.5	8.6	418.1	600.6	128.6	16
12	10.4	10.2	6.7	6.3	8	420.8	596.4	127.4	17.5
13	8.5	9.6	5	7.5	9	417.3	603.5	126.5	15.8
14	10.9	10.3	7.2	6.1	7.6	421.9	601.2	125.4	16.8
15	12	10	6	6.8	9.7	419.4	603.9	126.7	17
16	11.8	9.7	5.5	6.3	8.6	420.4	600.8	125.3	18.4
17	10.5	10	6.3	7.2	8	419.3	601.7	128.2	17.6
18	10	11.3	7.3	6.5	9.5	420.4	599.5	125.2	17.2
19	9.9	10.5	6.5	7.2	8.6	421.1	598.4	126.7	16.8
20	12	9.5	6	7.3	9	420.5	601.6	128	15.9
$\sum x$	212	200.4	127.7	138.8	173.9	8405	12006.3	2536.1	332.3
Average	10.6	10.02	6.385	6.94	8.695	420.25	600.315	126.805	16.615
St dev	1.189427107	0.462942534	0.71838635	0.467242752	0.588016291	1.273825568	2.129560123	1.130661195	0.951052049
UCL	14.16828132	11.4088276	8.540159049	8.341728257	10.45904887	424.0714767	606.7036804	130.1969836	19.46815615
LCL	7.03171868	8.631172399	4.229840951	5.538271743	6.930951128	416.4285233	593.9263196	123.4130164	13.76184385
k/s	40	40	40	40	40	40	40	40	40
n	20	20	20	20	20	20	20	20	20
$\sum x^2$	2274.08	2012.08	825.17	967.42	1518.63	3532232.08	7207648.15	321614.45	5538.35
$(\sum x)^2$	44944	40160.16	16307.29	19265.44	30241.21	70644025	144151239.7	6431803.21	110423.29
	927.4481118	360.9764535	560.1571208	364.3295212	458.5019084	993.2572678	1660.510765	881.6257709	741.5766987
N'	4.374755244	1.801279708	4.386508385	2.624852458	2.636583717	0.118174571	0.138303288	0.347630524	2.231648205

H_0 = Data berdistribusi normal.

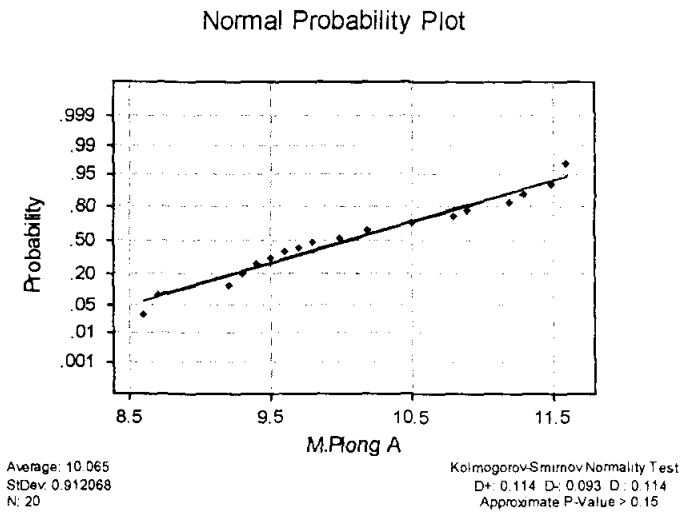
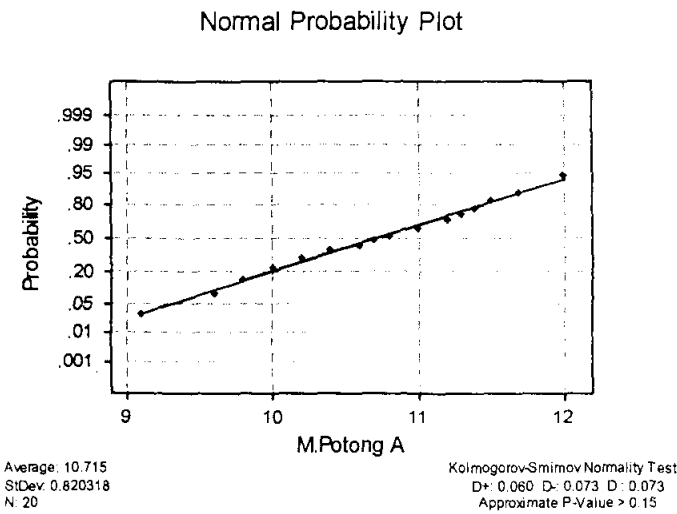
H_1 = Data tidak berdistribusi normal.

Dasar pengambil keputusan berdasarkan p-value, dengan tingkat $\alpha = 5\%$

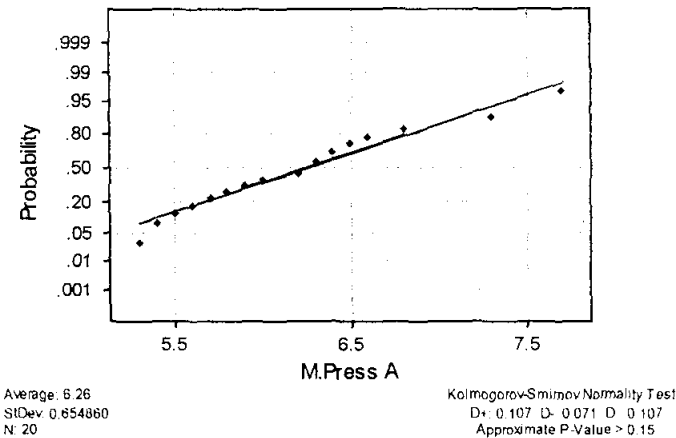
Jika p-value > α maka H_0 gagal ditolak

Jika p-value < α maka H_0 ditolak

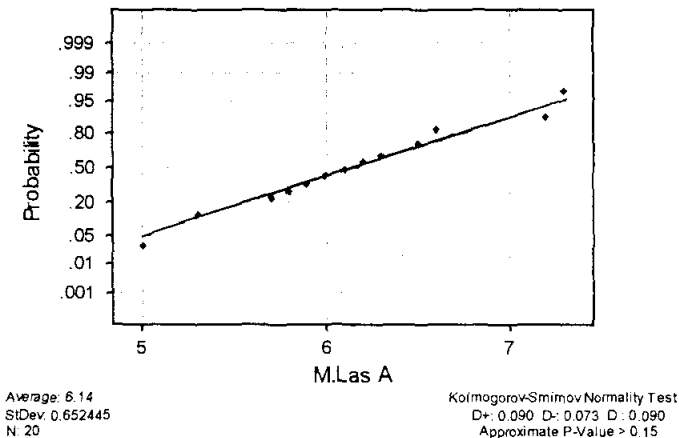
Uji Normality Test Produk Almari



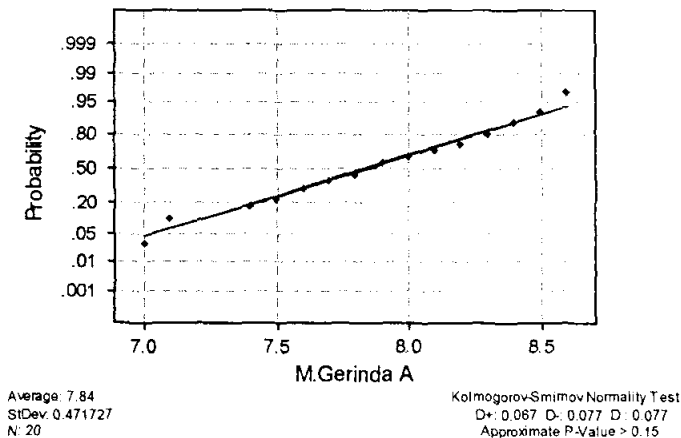
Normal Probability Plot



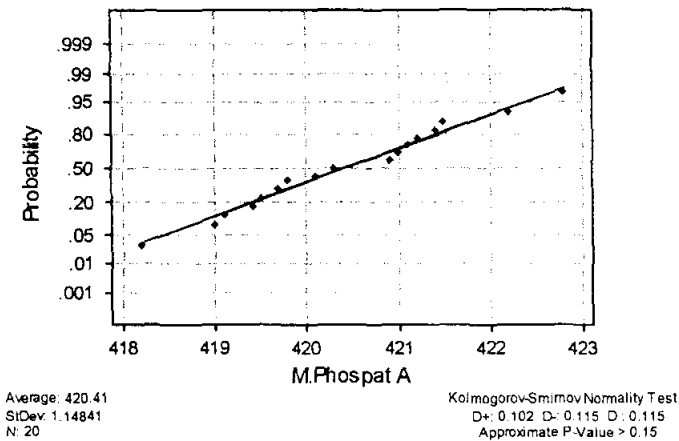
Normal Probability Plot



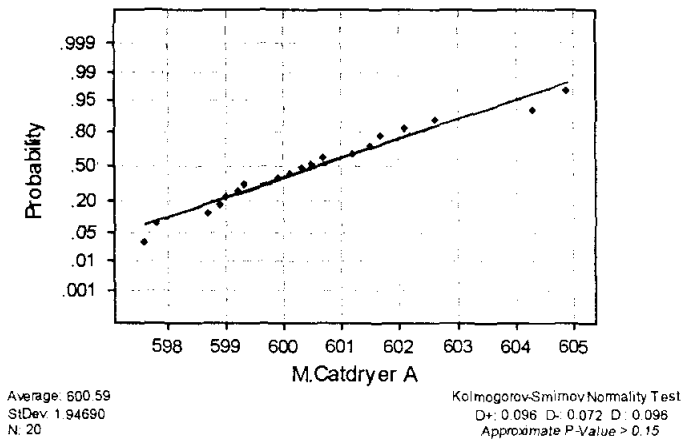
Normal Probability Plot



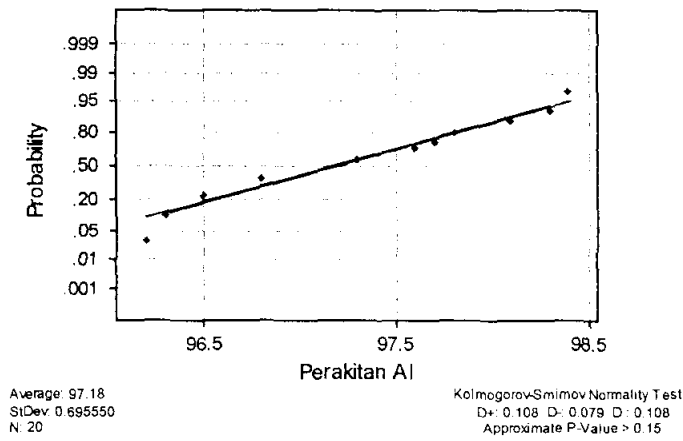
Normal Probability Plot



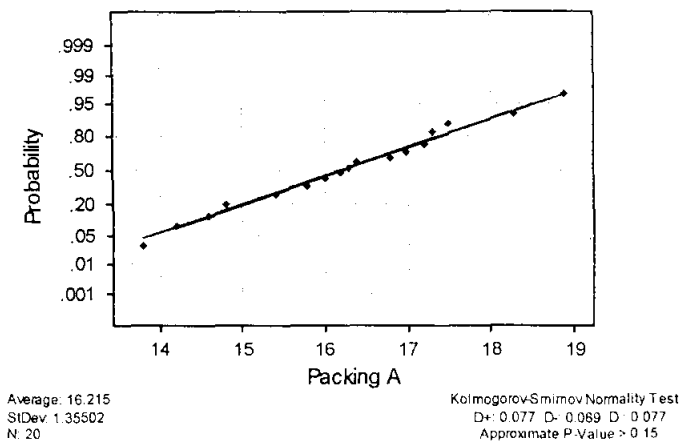
Normal Probability Plot



Normal Probability Plot

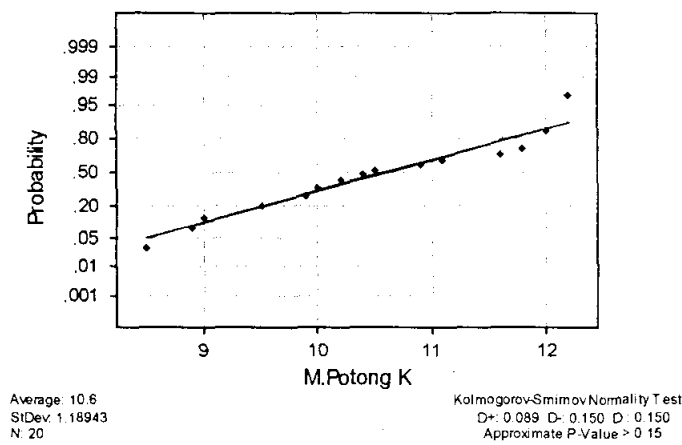


Normal Probability Plot

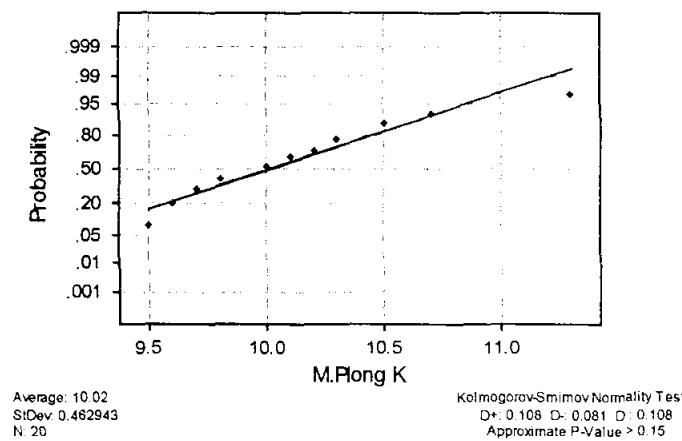


Uji Normality Test Produk Kabinet

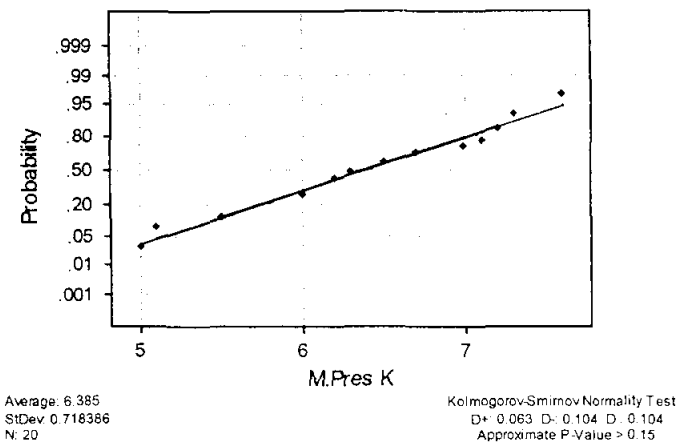
Normal Probability Plot



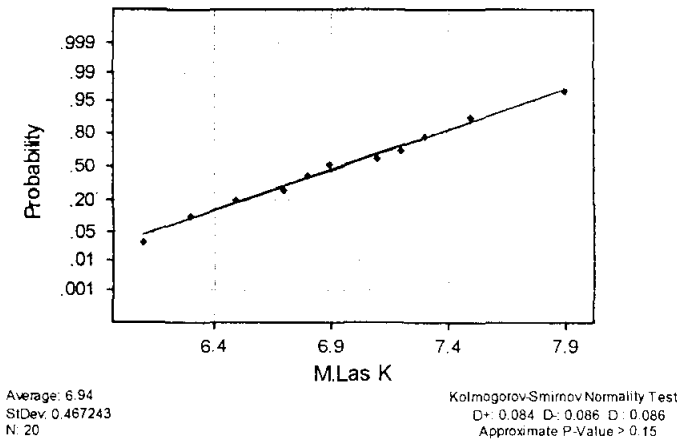
Normal Probability Plot



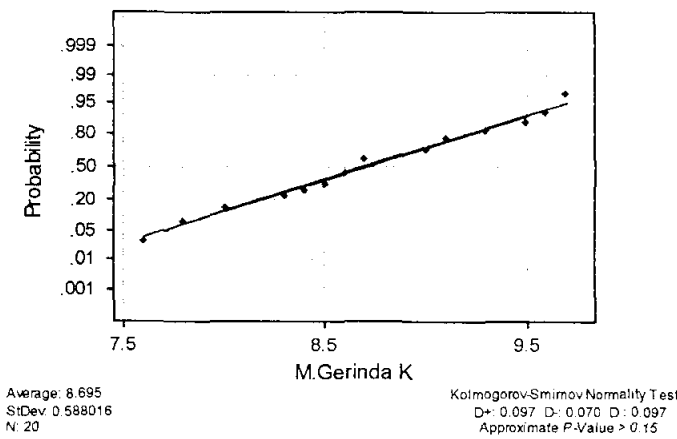
Normal Probability Plot



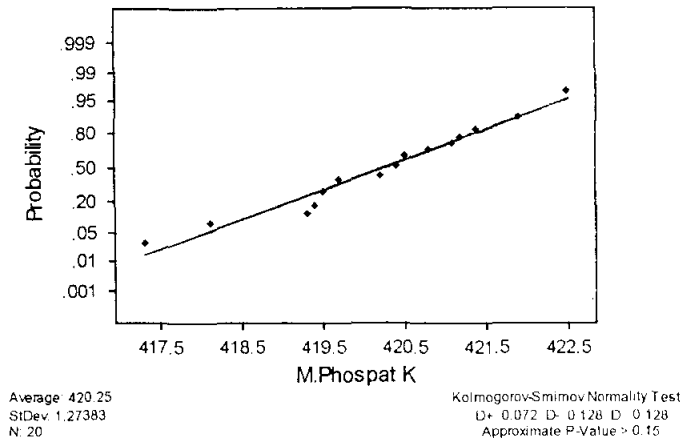
Normal Probability Plot



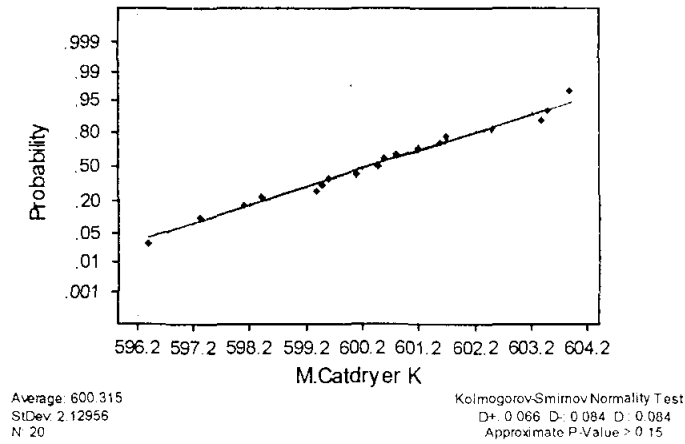
Normal Probability Plot



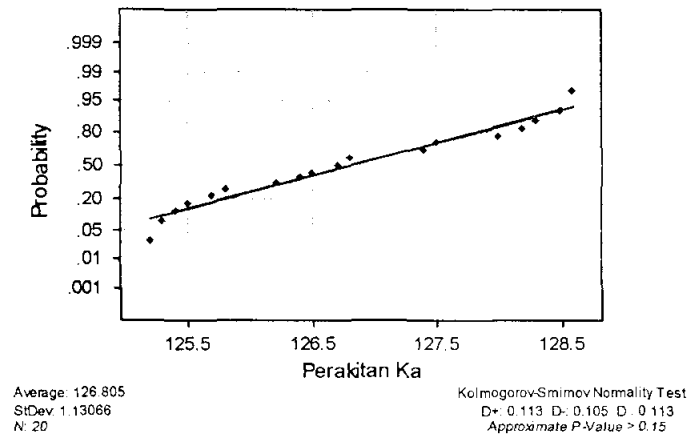
Normal Probability Plot

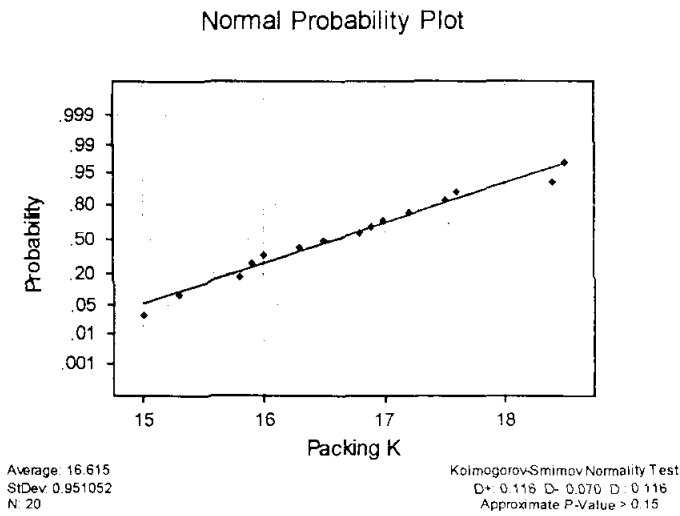


Normal Probability Plot



Normal Probability Plot





Hasil Uji Auto-Fit Untuk Almari

1. M.Potong.

descriptive statistics

data points	20
minimum	9.1
maximum	12
mean	10.715
median	10.75
mode	11.25
standard deviation	0.820318
variance	0.672921
coefficient of variation	7.65579
skewness	-0.130108
kurtosis	-1.08508

Auto::Fit Distributions

distribution	rank	acceptance
Lognormal{-458, 6.15, 0.0017}	100	<i>accept</i>
Weibull{8.12, 3.7, 2.88}	99.8	<i>accept</i>
Normal{10.7, 0.8}	99.4	<i>accept</i>
Logistic{10.7, 0.475}	97.2	<i>accept</i>
Pearson 5{5.22, 42.8, 230}	94	<i>accept</i>
Triangular{8.68, 12.3, 11.3}	93.5	<i>accept</i>
Extreme Value{10.3, 0.77}	85.7	<i>accept</i>
Beta{9.1, 12, 2.48, 2.13}	78	<i>accept</i>
Uniform{9.1, 12}	47.5	<i>accept</i>

2. M.Ploug.

descriptive statistics

data points	20
minimum	8.6
maximum	11.6
mean	10.065
median	9.9
mode	9.5
standard deviation	0.912068
variance	0.831868
coefficient of variation	9.06178
skewness	0.205045
kurtosis	-1.24553

Auto::Fit Distributions

distribution	rank	acceptance
Pearson 6(8.6, 3.07e+04, 2.42, 4.82e+04)	100	accept
Weibull(8.32, 2.06, 1.97)	99.4	accept
Lognormal(5.42, 1.52, 0.193)	97.8	accept
Pearson 5(3.66, 52.4, 329)	97.5	accept
Log-Logistic(6.75, 6.11, 3.21)	97.2	accept
Gamma(2.2, 78.1, 0.101)	97.1	accept
Erlang(2.13, 80, 0.0992)	97	accept
Beta(8.6, 11.6, 1.27, 1.29)	93	accept
Inverse Gaussian(5.75, 97.5, 4.31)	91.9	accept
Extreme Value(9.63, 0.754)	91.4	accept
Triangular(8.34, 12.2, 9.4)	90.1	accept
Uniform(8.6, 11.6)	87.7	accept
Logistic(10, 0.529)	83.5	accept
Normal(10.1, 0.889)	82.1	accept
Exponential(8.6, 1.46)	10.3	accept
Pareto(8.6, 6.52)	5.39	accept

3. M.Press.

descriptive statistics

data points	20
minimum	5.3
maximum	7.7
mean	6.26
median	6.25
mode	6.3
standard deviation	0.65486
variance	0.428842
coefficient of variation	10.461
skewness	0.510455
kurtosis	-0.60033

Auto::Fit Distributions

distribution	rank	acceptance
Logistic(6.22, 0.364)	95.8	accept
Log-Logistic(4.36, 5.04, 1.81)	91.8	accept
Pearson 5(3.53, 19.1, 49.5)	91.2	accept
Beta(5.3, 7.7, 1.49, 2.33)	90.9	accept
Pearson 6(5.3, 308, 2.18, 665)	89.7	accept
Lognormal(4.28, 0.633, 0.324)	89.4	accept
Normal(6.26, 0.638)	87.8	accept
Inverse Gaussian(4.33, 16.6, 1.93)	87.2	accept
Weibull(5.22, 1.62, 1.15)	83.7	accept
Extreme Value(5.96, 0.515)	80.5	accept
Gamma(5.07, 3.05, 0.389)	79	accept
Erlang(5.06, 3, 0.401)	78	accept
Triangular(5.22, 8.03, 5.4)	62.5	accept
Exponential(5.3, 0.96)	22.2	accept
Pareto(5.3, 6.2)	13.8	accept
Uniform(5.3, 7.7)	2.37	accept

4. M.Lass.

descriptive statistics

data points	20
minimum	5
maximum	7.3
mean	6.14
median	6.15
mode	6.05
standard deviation	0.652445
variance	0.425684
coefficient of variation	10.6261
skewness	0.13865
kurtosis	-0.883118

Auto::Fit Distributions

distribution	rank	acceptance
Gamma{-2.3, 170, 0.0496}	98.7	accept
Erlang{-2.36, 179, 0.0475}	97.3	accept
Log-Logistic{-19.9, 72.3, 26}	96.8	accept
Lognormal{-1.34, 2.01, 0.0851}	96.5	accept
Pearson 5{-1.33, 137, 1.02e+03}	96.2	accept
Logistic{6.12, 0.37}	95.9	accept
Weibull{4.68, 2.48, 1.65}	95.6	accept
Inverse Gaussian{-0.892, 855, 7.03}	93.2	accept
Normal{6.14, 0.636}	92.7	accept
Triangular{4.74, 7.63, 6.1}	87.2	accept
Extreme Value{5.82, 0.57}	78.6	accept
Beta{5, 7.3, 1.56, 1.5}	72.7	accept
Pearson 6{5, 1.02e+03, 3.38, 2.88e+03}	57	accept
Uniform{5, 7.3}	47.2	accept
Exponential{5, 1.14}	4.12	accept
Pareto{5, 5}	1.82	accept

5. M.Gerinda.

descriptive statistics

data points	20
minimum	7
maximum	8.6
mean	7.84
median	7.85
mode	7.65
standard deviation	0.471727
variance	0.222526
coefficient of variation	6.01693
skewness	-0.187022
kurtosis	-1.09283

Auto::Fit Distributions

distribution	rank	acceptance
Weibull[6.15, 4.26, 1.86]	99.4	accept
Lognormal[-460, 6.15, 0.000982]	99.2	accept
Logistic[7.85, 0.273]	98.5	accept
Pearson 5[1.24, 196, 1.29e+03]	98.3	accept
Normal[7.84, 0.46]	97.5	accept
Triangular[6.76, 8.82, 7.9]	95	accept
Beta[7, 8.6, 1.5, 1.39]	87	accept
Uniform[7, 8.6]	78.5	accept
Extreme Value[7.61, 0.445]	68.4	accept

6. M.Phospat.

descriptive statistics

data points	20
minimum	418.2
maximum	422.8
mean	420.41
median	420.3
mode	421.15
standard deviation	1.14841
variance	1.31884
coefficient of variation	0.273164
skewness	0.145198
kurtosis	-0.71991

Auto::Fit Distributions

distribution	rank	acceptance
Inverse Gaussian(406, 2.37e+03, 14.4)	100	accept
Gamma(402, 259, 0.0715)	98.4	accept
Normal(420, 1.12)	96.8	accept
Weibull(418, 2.81, 3.24)	95.8	accept
Erlang(403, 253, 0.0703)	94.8	accept
Lognormal(406, 2.7, 0.0751)	91.6	accept
Logistic(420, 0.649)	85.2	accept
Pearson 5(413, 40.5, 295)	83	accept
Log-Logistic(377, 69.1, 43.7)	80.8	accept
Beta(418, 423, 2.83, 3.06)	78.1	accept
Pearson 6(418, 5.26, 6.54, 15.7)	76.7	accept
Triangular(418, 423, 420)	62.2	accept
Extreme Value(420, 0.895)	26.5	accept
Uniform(418, 423)	19.4	accept
Exponential(418, 2.21)	2.52	accept
Pareto(418, 190)	2.47	accept

7. M.Catdryer.

descriptive statistics

data points	20
minimum	597.6
maximum	604.9
mean	600.59
median	600.4
mode	599.3
standard deviation	1.9469
variance	3.79042
coefficient of variation	0.324165
skewness	0.517947
kurtosis	-0.446662

Auto::Fit Distributions

distribution	rank	acceptance
Weibull(597, 1.81, 3.77)	100	accept
Erlang(596, 5, 0.872)	100	accept
Inverse Gaussian(594, 84.3, 6.8)	99.9	accept
Lognormal(594, 1.89, 0.275)	99.8	accept
Pearson 5(592, 23.5, 201)	99.7	accept
Pearson 6(598, 6.5e+04, 2.38, 4.92e+04)	98.3	accept
Gamma(590, 32.6, 0.324)	97.9	accept
Log-Logistic(579, 19.8, 21)	97.6	accept
Extreme Value(600, 1.52)	97.4	accept
Logistic(600, 1.08)	96.2	accept
Normal(601, 1.9)	93.6	accept
Triangular(597, 606, 599)	92.2	accept
Beta(598, 607, 1.63, 3.21)	92.1	accept
Exponential(598, 2.99)	18.7	accept
Pareto(598, 201)	18.3	accept
Uniform(598, 605)	3.83	accept

8. Perakitan Almari.

descriptive statistics

data points	20
minimum	96.2
maximum	98.4
mean	97.18
median	97.3
mode	96.2
standard deviation	0.69555
variance	0.483789
coefficient of variation	0.715733
skewness	0.191037
kurtosis	-1.34832

Auto::Fit Distributions

distribution	rank	acceptance
Beta[96.2, 98.4, 1.04, 1.32]	99.4	accept
Gamma[90, 112, 0.0645]	84	accept
Erlang[90.1, 110, 0.0644]	82.7	accept
Logistic[97.2, 0.412]	65.4	accept
Lognormal[94.9, 0.778, 0.307]	63.1	accept
Normal[97.2, 0.678]	59.9	accept
Pearson 6[96.2, 3.09e+04, 1.7, 5.09e+04]	52.7	accept
Inverse Gaussian[95.3, 13.2, 1.92]	52.7	accept
Log-Logistic[96.2, 1.89, 0.84]	50.5	accept
Uniform[96.2, 98.4]	46.6	accept
Weibull[96.2, 1.39, 1.11]	44.4	accept
Triangular[96.2, 98.9, 96.2]	38.2	accept
Pearson 5[95, 9.48, 18.1]	34.8	accept
Extreme Value[96.8, 0.542]	24.6	accept
Exponential[96.2, 0.98]	21.3	accept
Pareto[96.2, 98.9]	20.9	accept

9. Packing.

descriptive statistics

data points	20
minimum	13.8
maximum	18.9
mean	16.215
median	16.25
mode	16.1
standard deviation	1.35502
variance	1.83608
coefficient of variation	8.35658
skewness	0.0318154
kurtosis	-0.876296

Auto::Fit Distributions

distribution	rank	acceptance
Gamma[-69, 3.04e+03, 0.028]	99.9	accept
Weibull[12.9, 2.79, 3.77]	99.5	accept
Pearson 5[4.96, 69, 766]	99.1	accept
Erlang[-64.7, 3.76e+03, 0.0215]	98.7	accept
Lognormal[-52.7, 4.23, 0.0192]	98.6	accept
Normal[16.2, 1.32]	98.2	accept
Inverse Gaussian[-48.4, 1.54e+05, 64.6]	97.8	accept
Logistic[16.2, 0.771]	95.8	accept
Triangular[13.2, 19.4, 16.2]	93.2	accept
Log-Logistic[-216, 311, 232]	92.3	accept
Beta[13.8, 18.9, 2.06, 2.35]	84	accept
Pearson 6[13.8, 1.47e+04, 3.5, 2.03e+04]	66.8	accept
Extreme Value[15.5, 1.2]	65.2	accept
Uniform[13.8, 18.9]	30.6	accept
Exponential[13.8, 2.41]	3.59	accept
Pareto[13.8, 6.33]	2.11	accept

Hasil Uji Auto-Fit Untuk Kabinet

1. M.Potong.

descriptive statistics

data points	20
minimum	8.5
maximum	12.2
mean	10.6
median	10.45
mode	12.2
standard deviation	1.18943
variance	1.41474
coefficient of variation	11.221
skewness	-0.113744
kurtosis	-1.42934

Auto::Fit Distributions

distribution	rank	acceptance
Pearson 5[-1.87, 109, 1.35e+03]	88.2	accept
Extreme Value[10, 1.08]	85.7	accept
Weibull[7.18, 3.37, 3.82]	83.5	accept
Lognormal[-459, 6.15, 0.00247]	82.3	accept
Logistic[10.6, 0.711]	76.3	accept
Beta[8.5, 12.2, 1.35, 0.959]	74.1	accept
Normal[10.6, 1.16]	69.9	accept
Triangular[7.7, 12.2, 12.2]	68	accept
Uniform[8.5, 12.2]	28.8	accept

2. M.Plong.

descriptive statistics

data points	20
minimum	9.5
maximum	11.3
mean	10.02
median	10
mode	9.5
standard deviation	0.462943
variance	0.214316
coefficient of variation	4.62018
skewness	0.976416
kurtosis	0.5684

Auto::Fit Distributions

distribution	rank	acceptance
Extreme Value[9.83, 0.361]	94	accept
Logistic[9.98, 0.251]	75.1	accept
Pearson 5[9.05, 5.22, 4.12]	74.7	accept
Lognormal[9.34, -0.62, 0.721]	63.6	accept
Inverse Gaussian[9.3, 1.34, 0.717]	61.2	accept
Normal[10, 0.451]	61.1	accept
Gamma[9.5, 1, 0.52]	58.7	accept
Erlang[9.5, 1, 0.52]	58.7	accept
Exponential[9.5, 0.52]	58.7	accept
Pareto[9.5, 19.1]	52.3	accept
Weibull[9.5, 0.906, 0.5]	45.5	accept
Pearson 6[9.5, 3.81e+04, 1.95, 1.22e+05]	26.9	accept
Beta[9.5, 11.3, 1.73, 4.09]	20.2	accept
Log-Logistic[9.5, 2.14, 0.491]	17.8	accept
Triangular[9.5, 11.4, 9.5]	13.3	accept
Uniform[9.5, 11.3]	0.000792	reject

3. M.Press.

descriptive statistics

data points	20
minimum	5
maximum	7.6
mean	6.385
median	6.4
mode	6.1
standard deviation	0.718386
variance	0.516079
coefficient of variation	11.2512
skewness	-0.200635
kurtosis	-0.877129

Auto::Fit Distributions

distribution	rank	acceptance
Weibull[3.71, 4.41, 2.94]	94.8	accept
Logistic[6.4, 0.408]	88.8	accept
Lognormal[-462, 6.15, 0.00149]	87.8	accept
Normal[6.38, 0.7]	78.6	accept
Pearson 5[-5.52, 281, 3.33e+03]	77.2	accept
Beta[5, 7.6, 1.86, 1.68]	72	accept
Triangular[4.68, 7.89, 6.5]	71.3	accept
Extreme Value[6.03, 0.695]	24.8	accept
Uniform[5, 7.6]	11.9	accept

4. M.Lass.

descriptive statistics

data points	20
minimum	6.1
maximum	7.9
mean	6.94
median	6.85
mode	6.8
standard deviation	0.467243
variance	0.218316
coefficient of variation	6.7326
skewness	0.0504674
kurtosis	-0.881474

Auto::Fit Distributions

distribution	rank	acceptance
Gamma[-11.6, 1.21e+03, 0.0153]	99.8	accept
Erlang[-10.6, 1.49e+03, 0.0118]	94.5	accept
Weibull[5.79, 2.76, 1.29]	93.0	accept
Lognormal[-7.84, 2.69, 0.0308]	93.7	accept
Inverse Gaussian[-6.87, 1.27e+04, 13.8]	92.8	accept
Pearson 5[2.05, 111, 537]	90.1	accept
Normal[6.94, 0.455]	88.9	accept
Pearson 6[6.1, 1.87e+04, 3.54, 7.5e+04]	84.9	accept
Log-Logistic[-44.1, 198, 51]	83.8	accept
Triangular[5.94, 8.07, 6.8]	83.5	accept
Logistic[6.94, 0.268]	82.4	accept
Beta[6.1, 7.9, 2.29, 2.71]	65.7	accept
Extreme Value[6.71, 0.405]	55.7	accept
Uniform[6.1, 7.9]	21.2	accept
Exponential[6.1, 0.84]	3.24	accept
Pareto[6.1, 7.88]	2.11	accept

5. M.Gerinda.

descriptive statistics

data points	20
minimum	7.6
maximum	9.7
mean	8.695
median	8.6
mode	8.5
standard deviation	0.588016
variance	0.345763
coefficient of variation	6.76269
skewness	-0.0365087
kurtosis	-0.96016

Auto::Fit Distributions

distribution	rank	acceptance
Weibull(7.05, 3.22, 1.84)	100	accept
Pearson 5(1.34, 162, 1.18e+03)	99.2	accept
Lognormal[-284, 5.68, 0.00196]	98.3	accept
Normal(8.69, 0.573)	95.4	accept
Logistic(8.7, 0.335)	91.3	accept
Triangular(7.39, 10, 8.6)	86.7	accept
Beta(7.6, 9.7, 1.82, 1.63)	86.5	accept
Extreme Value(8.41, 0.544)	65.8	accept
Uniform(7.6, 9.7)	62.7	accept

6. M.Phospat.

descriptive statistics

data points	20
minimum	417.3
maximum	422.5
mean	420.25
median	420.4
mode	419.5
standard deviation	1.27383
variance	1.62263
coefficient of variation	0.303111
skewness	-0.361765
kurtosis	-0.28224

Auto::Fit Distributions

distribution	rank	acceptance
Logistic(420, 0.703)	96.7	accept
Weibull(414, 5.71, 6.57)	95.2	accept
Lognormal(-332, 6.62, 0.00165)	91.6	accept
Normal(420, 1.24)	87	accept
Pearson 5(400, 251, 5.06e+03)	84.2	accept
Beta(414, 422, 6.59, 2.7)	72	accept
Triangular(417, 423, 420)	37.8	accept
Extreme Value(420, 1.32)	24.7	accept
Uniform(417, 422)	1.29	accept

7. M.Catdryer.

descriptive statistics

data points	20
minimum	596.4
maximum	603.9
mean	600.315
median	600.5
mode	599.95
standard deviation	2.12956
variance	4.53503
coefficient of variation	0.35474
skewness	-0.0548506
kurtosis	-0.987858

Auto::Fit Distributions

distribution	rank	acceptance
Lognormal(129, 6.16, 0.0044)	99.9	accept
Weibull(594, 3.23, 6.68)	99.9	accept
Logistic(600, 1.21)	98.9	accept
Normal(600, 2.08)	98.9	accept
Triangular(595, 605, 601)	97.6	accept
Beta(596, 604, 1.73, 1.54)	89.8	accept
Pearson 5(589, 23.5, 258)	81.4	accept
Extreme Value(599, 1.97)	65.5	accept
Uniform(596, 604)	55.1	accept

8. Perakitan Kabinet.

descriptive statistics	
data points	20
minimum	125.2
maximum	128.6
mean	126.805
median	126.7
mode	125.2
standard deviation	1.13066
variance	1.27839
coefficient of variation	0.891653
skewness	0.13666
kurtosis	-1.43402

Auto::Fit Distributions		
distribution	rank	acceptance
Beta(125, 129, 0.927, 1.03)	100	accept
Gamma(112, 175, 0.0845)	92.6	accept
Log-Logistic(79.2, 71, 47.6)	90.5	accept
Erlang(112, 184, 0.0811)	90.2	accept
Uniform(125, 129)	84.5	accept
Lognormal(122, 1.57, 0.228)	83.5	accept
Pearson 6(125, 6.57e+04, 1.61, 6.26e+04)	80.4	accept
Inverse Gaussian(123, 44.2, 3.9)	79.8	accept
Pearson 5(122, 16.1, 69.1)	79.6	accept
Logistic(127, 0.67)	76	accept
Normal(127, 1.1)	75.7	accept
Weibull(125, 1.41, 1.84)	72.8	accept
Triangular(125, 130, 125)	55.7	accept
Extreme Value(126, 0.882)	38.5	accept
Exponential(125, 1.6)	37.6	accept
Pareto(125, 78.7)	36.2	accept

9. Packing.

descriptive statistics

data points	20
minimum	15
maximum	18.5
mean	16.615
median	16.65
mode	15.9
standard deviation	0.951052
variance	0.9045
coefficient of variation	5.72406
skewness	0.322798
kurtosis	-0.783243

Auto::Fit Distributions

distribution	rank	acceptance
Weibull[14.7, 2.17, 2.16]	100	accept
Erlang[13.6, 10, 0.298]	96.2	accept
Lognormal[11.8, 1.55, 0.194]	93	accept
Pearson 5[10.1, 50.4, 322]	92.3	accept
Gamma[11.5, 31.5, 0.164]	86.6	accept
Triangular[14.8, 19, 15.9]	85.5	accept
Log-Logistic[-0.072, 31, 16.6]	82.2	accept
Logistic[16.6, 0.541]	76.2	accept
Normal[16.6, 0.927]	75.1	accept
Beta[15, 18.5, 1.69, 1.88]	71	accept
Pearson 6[15, 3.63e+04, 3.35, 7.16e+04]	69.7	accept
Inverse Gaussian[12, 113, 4.63]	69.5	accept
Extreme Value[16.1, 0.749]	61.9	accept
Uniform[15, 18.5]	29.3	accept
Exponential[15, 1.62]	2.55	accept
Pareto[15, 9.93]	1.57	reject